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Upwards of 1,600 of these Cases have been sent out.

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TO ACCOUNT.	FOR CASH.		TO ACCOUNT.	FOR CASE.
8/0 dos.	2/9 dos.	PILULES Sixpenny Bottles	3/0 dox.	2/9 dos.
4/6 ,,	4/1	Ninepenny ,,	4/6 ,,	4/1 ,,
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8/0 ,,		TRITURATIONS Sixpenny Bottles	4/0 ,,	8/7 ,,
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	TO ACCOUNT, 3/0 doz. 4/6 ,, 6/0 ,, 3/0 ,, 4/6 ,,	TO ACCOUNT. FOR CASH. \$ 0 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	TO ACCOUNT. FOR CASH. 3/0 doz. 2/9 doz. 4/6 ,, 4/1 ,, Sixpenny Bottles 8/0 ,, 5/5 ,, Shilling ,, 8/0 ,, 2/9 ,, TRITURATIONS.—Sixpenny Bottles Ninepenny ,, Ninepenny ,,	TO ACCOUNT. S O doz. 2/9 doz. PILULES. — Sixpenny Bottles 3/0 doz.

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Including New York, 1874; Philadelphia, 1876; Paris, 1878 Medical and Health Exhibitions, London, 1881 & 1884.

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"VASELINE OINTMENTS."

(These Ointments are compounded with Vaseline as a base, and will be found superior to all others. They can be kept indefinitely without deterioration.) In collapsible tubes; 1-oz., 2-oz., and 5-oz. bottles, and in ½-lb., 1-lb., 5-lb. tins.

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One size in fancy tin box, 1s.; in boxes (wood) of 1 doz.

In 2-oz, and 4-oz, bottles, and 1-1b tins.

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UNGUENTUM HYDRARGYRI (12 Mercury - Mercurial Girtmen UNGUENTUM ZINGE OXIDI.

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CERATUM PLUMBI SUBACETATIS (Goulard's Cerate).
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Put up in jars with flat covers, four jars in a box. No clarge for jar.

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In 2-oz. and 5-oz, bottles; also white in coloured glass-stoppered bot and in 1-lb. and 5-lb. tins.

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In collapsible tubes; 2-ox. and 5-ox. bottles; and 1-lb.:

One size bottles, in cardboard cases.

In glass pots, three sizes, 9d., 1s. 3d., and 2s. each.

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Superfine Toilet (one size), three tablets in box; Family Toilet (two six in boxes of six tablets and three tablets; Vase ine Tar (two sizes) aboxes of six tablets and three tablets.

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In 1.lb., 1-lb., and 5-lb. tins.

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In square cans, holding four imperial gallons; two cans in a case (wood)

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Universally acknowledged by Pharmacists who have them in use to be the most Simple, Efficient, and Economical of all methods for preparing Syrups.

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 E^{ACH} fluid drachm contains 34.4 grains of Iodide of Iron.

ONE volume added to seven volumes of Syrupus, B.P., forms Syr. Ferri Iodidi of full Pharmacopæia strength.

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EACH fluid drachm contains 4 grains of Phosphate of Iron, 4 grains of Phosphate of Quinia, and grain of Strychnia.

O^{NE} volume added to three volumes of Syrupus, B.P., forms Easton's Syrup.

LIQUOR Calcis Lactophosph.

EACH fluid drachm contains 8 grains of anhydrous Calcium Phosphate combined with Lactic Acid.

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EIQUOR Herri Phosph.

E^{ACH} fluid drachm contains 8 grains of Ferrous Phosphate.

O^{NE} volume added to seven volumes of Syrupus, B.P., forms Syr. Ferri Phosph.

Ferri Phosph. Comp.

EACH fluid drachm contains, in addition to the alkaline Phosphates, 4 grains of Phosphate of Iron, and 8 grains of Phosphate of Calcium, dissolved in pure Phosphoric Acid.

O^{NE} volume added to three volumes of Syrupus, B.P., forms "Chemical Food."

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EACH fluid drachm contains 8 grains of Hypophosphite of Iron.

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On receipt of a Post Card, trial samples will be sent, carriage paid, to any address.

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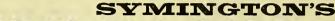
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Prepared from freshly-roasted Coffee Beans, the whole of the fine delicate Aroma being retained by means of a Special Process.

Their new 1s. bottle makes 30 cups of Coffee equal to that made direct from the finest Beans, while the convenience of preparing just the quantity required, from a cup to a gallon, makes it much more economical.

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EXTRACT FROM "BRITISH MEDICAL JOURNAL."

"Symington & Co.'s Coffee Essences have a standard reputation, and possess great merit. The Coffee Essence must be prepared in Vacuo at a low temperature, as the aroma of the Coffee is well preserved; in its essential qualities it does not differ in any way from a cup of Coffee made in the ordinary way. The Coffee and Milk is extremely convenient for travellers, bachelors, &c., or wherever it may be convenient to have at hand a preparation which requires only the addition of bolling water to make a cup of good Milk-Coffee."

Agent for Australia: C. A. Anderson, Clarence Street, Sydney, N.S.W. New Zealand: R. Wilkin & Co., Christ church; Levin & Co., Wellington; and A. Heather, Auckland. United States: Davis, Sacker & Perkins, Boston Canada: Thos. Stewart, 24 Scott Street, Toronto.

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To Export Dealers and Shippers.

This unique specialité proves a profitable article of investment, as its sale is

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All those who buy it proclaim its virtues in their circle, and are its most zealous advertisers.

It is put up with directions for use in English, French, German, Italian, and Spanish.



Brodie's Remedy for Corns

Is one of the most elegant and attractive articles of the day and is now to be found on the count ers of all the principal chemists in the United Kingdom.

SOLE AGENCIES.

The interests of the firms who have obtained these are scrupulously protected. The accompanying engraving represents the envelope in which the article is enclosed.

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PATENTED
MALTED & COOKED
FARINACEOUS

FOOD FOR INFANTS.

PRIZE MEDAL—INTERNATIONAL HEALTH EXHIBITION.

This will be found one of the most nutritious and easily digested Foods for Infants. It is prepared from the best wheaten flour, treated with malt in solution, whereby the food becomes very largely self-digestive. This process includes all the soluble and digestive properties of the malt, and avoids the introduction of the husk, which is directed by Professor Liebig to be strained out when foods are made with ground malt.

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It is a complex solution of Iron, Lime, Soda, and Potash, in a Phosphoric Syrup. The Iron is in the Ferrous condition. This Preparation, formerly known as PARRISH'S CHEMICAL FOOD, has been purchased by Messrs. Squibe. Each bottle of the genuine Preparation is secured by their seal, and the cases bear their Registered Trade Mark.

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This Extract is prepared from the finest Malted Barley, at a very low temperature, in vacuo, by a special process, under the immediate supervision of one of the Firm. It possesses the highest digestive power of any Extract of Malt in the Market. A copy of the comparative examinations of the various kinds reported in the Medical Times, June 21, 1884, pages 847 and 848, will be forwarded to any Physician on application. It contains only the soluble constituents of good Malt.

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SQUIRE,

Chemist on the Establishment in Ordinary to the Queen,

413 OXFORD STREET, LONDON.

CONDY'S FLUID—IMITATIONS.

APOLOGY AND INJUNCTION.

In the Sigh Court of Justice (Chancery Division).

CONDY & MITCHELL, Limited, Plaintiffs, 67 Turnmill Street, London, E.C.

ROBERT SUMNER & CO., Defendants,

WHOLESALE DRUGGISTS, 40a Lord Street, Liverpool.

We, the undersigned Defendants in this case, having, in ignorance of the legal rights of the Plaintiffs, sold disinfecting fluid under the name of "CONDY'S FLUID," such compound NOT being of the Plaintiffs' manufacture, hereby express our regret, and have consented to a PERPETUAL INJUNCTION WITH COSTS in this action.

Dated 17th day of October, 1884.

(Signed)

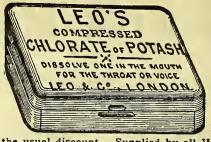
R. SUMNER & CO.

(Witness)

J. W. THOMPSON, Solicitor, Liverpool.

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LEO'S

COMPRESSED

Chlorate of Potash.

Price to the Trade, 2/6 PER DOZEN, less

Supplied by all Wholesale Druggists. A sample dozen the usual discount. boxes will be sent, postage paid, to any Chemist, on receipt of 2/6 in stamps.

These are the best, and are put up in the most elegant style of any cheap compressed goods in the market.

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CERTIFICATE OF MERIT, LONDON, 1881.

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BRONCHITIS KETTLES, FOOD WARMERS, NIGHT LAMPS & SPIRIT LAMPS

HIGH STREET, HARBORNE, BIRMINGHAM.

Wholesale Agents: S. Maw, Son, & Thompson, London.

AUSTIN'S CARBOLATED PREPARATION

Will be found alike excellent in quality and economical in use; in fact, boons in every household. They comprise HIS

Patent Pocket Inhalers,
In various forms, at 3s., 4s. 6d., 7s. 6d., 10s. 6d., and in pure silver 21s. each, all of which contain a supply of HIS

Carbolate of Iodine.

For use in them—and obtains an ever-increasing demand—for the removal of incipient Catarrh, and relief of all throat and lung affections who persistently used according to instructions. Physicians and Medical Men of the highest rank in their profession daily prescribe their use; also Bottles, 1s. and 2s. each.

Tubulettes, 1s. each, or, per half-dozen, 5s.

Austin's Carbolated and Aromatized Dentifrice.

The use of this admirable and economic Tooth Powder will effectually arrest decay, sweeten the breath, and prevent Toothache. Price, 1s. per Box.

Austin's Carbolated and Aromatized Toilette Soap,
Inferior to none, but superior to most, at 1s. per Box, is relatively cheaper than any other. Its autiseptic and hygienic properties render it invaluat for preserving health and strength.

Austin's Carbolated and Aromatized Tonic Hair Wash Fulfils every condition of restoring weak hair, and improving that hest ornament of woman in an eminent degree. In Bottles at 1s. and 2s. eac

Austin's Fumigateur de Paris et de Bruxelles Sanatif, at 6d. No sick chamber should be without this excellent contributor to restoring health and strength.

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Has already obtained an unprecedented demand on account of its absolute efficiency and immense economy in the purification of Drains, Cesscools, At pits, &c., &c. Retailed in Canisters at 6d. and 1s.; in Bags, 14 lbs., 1s. 6d.; 28 lbs., 2s. 6d.; ½-cwt., 4s. 6d.; per cwt., 8s.; and per ton, £7 los.

Austin's Patent Pocket Inhalers,

And Carbolate of Iodine for use therewith, are in constantly increasing demand.

DR. HORACE DOBELL, in his recent work "On Loss of Weight. Blood Spitting, and Lung Disease," says (at page 124, 2nd edition), in reference Antiscptic Inhalations - "ONE OF THE BEST MEANS OF USING THESE IS AUSTIN'S POUKET INHALER."

Prices-3s., 4s. 6d., 7s. 6d., 10s. 6d., and 21s. each.

Extra Bottles of Carbolate of Iodine, 1s. and 2s. each. Extra Tubulettes, 1s. each, or 5s. per half-dozen.

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AND MAY BE HAD OF ALL THE LEADING PATENT MEDICINE HOUSES.

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ESSENCE, LEEMING'S

LAMENESS HORSES.



GONE LAME.

CAUTION.

It having come to the knowledge of BAR CLAY & SONS that persons, both at home and abroad, have been preparing and offering preparing and offering for sale an imitation of L.F.E.M.I.N.G'S ESSENCE, they heg to caution the trade that all such preparations are spurious, and that no person has any right o authority to prevare

LEEMINGS ESSENCE except
BARCLAY AND
SONS, who have purchased the original recipe, and whose name appears on the label.



CURED BY LEEMING'S ESSENCE.

This Essence cures Strains of the Back Sinews, also Slips and Strains of the shoulders, Stiffle, Hough, Whirlpool, Kuee, Fetlock, and Coffin Joints. It makes the quickest and surest cures of any article yet known, and horses may be worked during the time of cure. PRICE 2.6.

LEEMING'S SHOULDER MIXTURE cures Horses' Backs and Shoulders when bruised or sore, and horses may be worked during the time of cure. PRICE 1/.

ZYMOLYS ARTICLES

INTERNAL DISINFECTANT.

(REGISTERED TRADE MARK.)

THIS PREPARATION is a sure and harmless Disinfectant of the Blood and Tissues of the Body, rendering the human frame proof against Zymotic, or Infectious, Diseases - Measles, Scarlet Fever, Diphtheria, Sore Throat, Small-pox, Typhoid, Cholera, &c.

Cures for diseases are always ready to hand, but ZYMOLYS supplies a long-felt want, and is, what no other medicine can justly claim to be, a Reliable Preventive of Infectious Diseases.

By the use of ZYMOLYS, which gives immunity from the above diseases, Epidemics can be effectually stamped out, and prevented from spreading beyond the person first attacked.

RETAIL. 2s. 9d., 4s. 6d., 11s.,

Ball's Bronchial Blessings

THROAT LOZENGES.

These Lozenges, which These Lozenges, which flavour, are invaluable venting Hoarseness, of the throat, to which particularly those business demands a

for removing and pre-Irritation or Tickling everyone is liable. everyone is liable, whose profession or continual use of the

Adults should take one Lozenge from time to time as occasion may require, allowing it to dissolve slowly in the mouth. Children will find half a Lozenge sufficient.

Ball's Bronchial Blessings can be obtained at any Chemist's.

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First, that they are only used in making up prescriptions; if sold otherwise they must be stamped before sale. Secondly, every order for unstamped Syrups must be written on "to be used for dispensing purposes only."

Prices are as follows	:					Nett.
CHURCHILL'S	SYRUP	•••	4/-	37/-	per doz. subject.	31/71
DUSART'S	99	•••	2/6	26/-	19	22/23
FELLOW'S	,,	•••	½·1b.	35/-	19	29 11
Do.	,,	•••	1-lb.	56/-	**	$47/10\frac{1}{2}$

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PATENT MEDICINES,

PERFUMERY,

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MINERAL WATERS.

SPONGES, &c.

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FREE ON RECEIPT OF BUSINESS CARD.

SPONGES OF SUPERIOR QUALITY—SANDLESS.

By the Quarter, Half, or Whole Case. In smaller quantities, Carded or otherwise.

Before BUYING ELSEWHERE, compare our PRICES with those of other WHOLESALE HOUSES

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RETAIL.		PER	рос	z., s	UBJECT			Ni	ETT.		Ret	AIL.		Per	noz, s	UBJEC	T.		NE	TT.
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0 1		•••	0	0	8	•••	•••	0	7	- 1	1	0	•••	•••	0 '8	0	•••	•••	6	10
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0.9			0	6	0			5	$1\frac{1}{3}$	1										

Pur hasers of Druggists' Sundries, Smelling Bottles, Hair Brushes, Combs, Sponges, Thermometers, Filters, and Boxes of all description should pay a visit to our Showroom before purchasing elsewhere, in order to compare our prices and quality against other houses

AGENCIES OF ALL KINDS UNDERTAKEN ON FAVOURABLE TERMS.

J. SANGER & SONS, 489 Oxford Street, LONDON, W.

KEARSLEY'S WIDOW WELCH'S FEMALE PILLS

These are universally acknowledged to be the Genuine, and Druggists may safely recommend them.

CAUTION!—The Proprietors of Kearsley's Original Widow Welch's Female Pills find it incumbent on them to cantion the purchasers of the Pills against various imitations by parties who have no knowledge of their peculiar preparation, the Original Recipe having been sold to the & G. Kearsley, of Fleet Street, whose Widow found it necessary to make an Affidavit, for the protection of her property, in the year 1798. The Genie Recipe for Widow Welch's Female Pills has been prepared by them for 98 Years! Chemists are particularly requested to remark that, (a testimony of authenticity, each bill of directions contains an Affidavit, and bears the signature of "C. KEARSLEY," in writing, also engraved on a Government Stamp, and each box is wrapped in WHITE paper.

1,000 Handbills with Name, and 2 Tin Showcards, supplied with all Orders for One Dozen (13) Boxe PRICE \$\sigma_{\mathbf{s}}\text{s}. PER DOZEN, SUBJECT TO USUAL DISCOUNT.

Special Quotations to Shippers and for large quantities, on application to J. SANGER & SONS, 489 OXFORD STREET, LONDON, W.

EVALIER'S PERLE

17 BARTHOLOMEW

CLOSE,



LONDON,

MESSRS, F. CHEVALIER & CO. having obtained the services of Mr. E. Cant (formerly with Messrs, Allen & Hanburys) as Manager, and having made great improvements in the style of their goods, can confidently recommend them as the most reliable,

They are now packed in JAINOKE'S PATENT METALLIC BOXES, in shapes well suited for the pocket. The boxes are neatly and plainly labelled. Chemists, in dispensing them, can readily remove the wrapper and directions and put on their own Dispensing Label.

Trese Perles are so packed in separate divisions that each one remains in its place to the last, thus avoiding the disagreeable rattling of an ordinary box of hard capsules. The Circulars enclosed in the boxes are divided into two sets. On one appears all remedies such as Castor Oil, Gregory's Powder, &c., and on the other such remedies as Copaiba and Sandal Oil; these are each kept strictly for use with their own class of groots so that Chemists must be for use with their own class of goods, so that Chemists may be assured that in selling Castor Oil Perles they are not handing out a circular recommending Balsam of Copaiba.

The manufacturers absolutely guarantee the quantity and quality of all drugs and preparations used in filling their Perles. They are also prepared to fill their Perles with any drug or preparation to order, upon moderate terms, and in plain boxes if desired.

By an agreement made with Messrs. ALLEN & HANBURYS, CHEVALIER & Co. can supply Chemists with Perles filled with the A. & H. Pérfected Cod Liver Oil.

SCALE OF SIZES OF PERLES. .

No. 1	contains	10	minims.	1	No.	4	contains	40	minims
No. 2	,,	20	"		No.	5	**	60	23
No. 3	,,	30	•,		No.	6	,,	80	"

Directions for taking Chevalier's Soluble Perles.

The Perles may be readily swallowed by the aid of a little milk or other fluid. Being very flexible the largest may be swallowed without any difficulty.

This Price List is subject to a Discount of 33\frac{1}{3} per cent. to Chemists, and on additional 5 per cent. for each in 7 days prompt.

NAME	NUMBER IN EACH BOX	QUANTITY IN EACH PERLE	RETAIL PRICE	COMPOSITION OF CONTENTS
APERIENT APIOL ASSAFCETIDA CAMPHOR MONOBROMIDE CASTOR OIL """ COD"LIVER OIL """ CARBOLIC ACID CHARCOAL CREASOTE CHLOROFORM GREGORY'S POWDER LICOMICE POWDER MALE FERN ÖIL CETHER " PERMANGANATE OF POTASSIUM SANTONINE CO. TAR, NORWEGIAN TURPENTINE COPAIBA COPAIBA COPAIBA COPAIBA COPAIBA COPAIBA, CUBEBS, AND BUCHU """ SANDAL ""	1N	18	#RICE s. d. 1 6 2 9 1 6 0 1 1 0 1 1 9 1 6 6 1 0 1 1 9 1 6 6 1 0 1 6 9 1 6 9 1 6 9 1 6 6 2 6 2 6 6 6 2 0 2 6 6 6 2 6 3 6 6 2 6 6 2 6 6 6 6 6 6 6 6 6 6 6 6 6 6	Composition of Contents Confection of Senna. Apiol 3 m. Olive Oil 7 m. Monobromide of Camphor and Sugar of Milk. Bleached East Indian Oil. """""""""""""""""""""""""""""""""""
GURGUN BALSAM "" SANDAL OIL" To this List will be added such new remedies as m	24 12 24 24 24	30 m. 60 m. 60 m. 10 m. 20 m.	2 6 2 6 4 6 3 6 6 0	Best English distilled Oil. I to carry out the suggestions of Medical Men.



Wholesale and Export Druggists' Sundriesmen, Surgica Instrument Makers, Perfumers, &c.

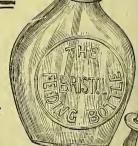


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FEEDING BOTTLES.

OUR NEW LIST FOR 1885 NOW READY, POST FREE ON APPLICATION.





"BRISTOL."-Earthenware Can

										1	White Fittings.	Black Fittings.
177	*******		N 4 N-		1 1 1 1 1	1					Per doz.	Per doz.
The	MATER"	green grass,	bent neck,		, in 1 doz. boxes		••		• •	•••	3,6	4/-
	,,	"	,,				•• •• .		• •	• • •	4/3	4/9
	,,	,,,,,	"	screw glass stop	oper, in 1 doz. bo	xes		••	• •	•••	4/-	4/6
	,,	white glass		earthenware ca	ps, each in box		**1 . **.		••		7/6	8/-
	11	,,	22	screw glass stor	per, each in box						7/6	4/9 4/6 8/- 8/-
	2)	"	"	·	extra tube	and teat	''				10/-	11/-
			"	tin screw cans							8/-	9/-
	"	"		on sore we caps	very superior fitt	inge					10/-	11/-
	,,	"	"		gold lines			••	••	••		
	"		"	porceiain caps,	gold lines			••	••	• •	10/-	11/-
ne	IMPERIAL	.,'' suitable i	or export,	green glass, stra	aight, wood top	corks, in	I doz. box	es	• •	••	3,3	3/9
	99	2)		,,		eac	h in box		• •	••	4/-	4/9
	22	11		11	metal screv				• •	• •	4/3	4/9 - 4/9 7/6
	••	••		white glass, stra	ight, earthenwa	re caps, e	ach in box				7/-	7/6
		,,			i pure tin ca	ns, each i	n box				7/6	8/-
he "	RPICTOL	" green glass	hent necl	wood ton cor	ks, in 1 doz. box	es			- ::		3/-	8/- 3/6 4/6
	DINISTOL,	White	, bond need	anthonword	caps, each in box	~					. =	AIR
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ROZALIUM

(REGISTERED)

POWDER OR PASTE

IS THE BEST DENTIFRICE.

It is scientifically prepared by a Dental Surgeon, of large practice and great experience, and is intended to supply a long felt want, viz, a Preparation that will thoroughly cleanse the Teeth, and at the same time help to preserve them. As a stimulant to the Guns, and a preservative of the Teeth, Rozalium is not to be surpassed; it gives to the Teeth a charlest themes to a large of the contract pearly whiteness, to the Gums a healthy rosy colour, whilst it prevents decay by neutralizing the acids which accumulate between the Teeth, and imparts to the Breatb a most delicious fragrance.

May be obtained from the Wholesale Houses, or direct from the Proprietor—

J. W. MARTIN, Dental Surgeon, PENGE.



FERGUSON'S PATENT TOOTH POWDER OR DENTIFRICE

For Supplying Tooth Powder or other Dentifrice to the Brush.

The spoon is fitted inside a suitable bottle, which forms a receptacle for the denti-frice, the spoon itself acting as an air-tight stopper to the bottle. Ss. per dozen; retail, ls each.

The bottles are sold empty, consequently they increase the sale of tooth powder from bulk. Wholesale from

J. A. FERGUSON, 53 GT. GEORGE STREET, LEEDS,

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GOLDEN HAIR WASH.

The attention of the Trade is respectfully called to the above Article, now having a large sale, and giving an excellent profit to the Retailer.

5/6 size, 36/ per doz. 10/6 size, 72/ per doz.

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Prepared only by William Darling, Chemist, Manchester May be had from S. Maw, Son, & Thompson; Barclay & Sons; F. Newbery & Sons; Sanger & Sons; and any Wholesale House in London. Price 2s. per Box, and Family Jars 10s. each.

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Recommended by eminent Surgeon-Dentists. Patronised by the "Monds élégent" as the best and most agreeable liquid Dentifrice yet introduced. PROPRIETORS-

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The certain cure TOOTHACHE. certain cure for the

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If used as a Tooth-powder will prevent Neuralgia and absolutely arrest all decay

Of the Teeth, also preserve them healtby

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Everyoue should try it, especially Smokers.

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Prepared from the Recipe of the late Dr. ANDERSON, produces a lovely complexion. It is elegantly perfumed, without sediment, and perfectly harmless. One of the best preparations before the public. Largely advertised and in great request. 4/6 each.

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SOLD BY ALL CHEMISTS AND PERFUMERS, IN

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TOILET CASKET PRICE 2/6. ALSO IN PATENT METALLIC BOX PRICE 1/-

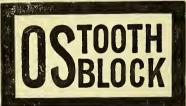
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MECHANICAL DENTISTRY.

The most PERFECT FIT and HIGHEST FINISH, with Punctuality, may be relied on in all Work entrusted to

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50 BRUNSWICK ST., MANCHESTER,

Who has had 35 Years' Experience in every branch of Dental Workmanship. The most Moderate Scale of Charges possible to ensure Good Work and Best Materials. *Price List on application*. A vacancy for a pupil.

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An Upper or Lower Set, inclusive of Teeth Rubber, &c., £1 1. Ditto, ditto, on Platina, £2 2s.

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SOLD EVERYWHERE,

For Removing Tartar, Whitening the Teeth, and Sweetening the Breath.

PRICE, 6d. and 1s. per Pot.

MAY BE HAD OF WHOLESALE HOUSES THROUGHOUT THE GLOBE.

WHITE TEETH. AND SOUND

JEWSBURY AND BROWN TOOTH ORIENTAL PASTE.

MARK/

This old-established and increasingly favourite Dentifrice has been Fifty Years before the Pulc It is warranted to retain its properties and keep in good condition in any climate

The original and only genuine is manufactured solely by

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and is distinguishable by the Trade Mark, printed in red and green, a facsimile of which is anneal. Particular attention should be paid to this guarantee of genuineness, as numerous imitations are offer Sold universally by Chemists and Perfumers, at 1s. 6d. and 2s. 6d.

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ROWLAND'S TOILET ARTICLES,



20 Hatton Garden, London,

Have been known for the last 84 years all over the world, and being well advertised. and always finding a ready sale, are well worthy the attention of Chemists. Druggists, and Storekeepers. They will keep good for years, no matter how hot or cold the climate may be.

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strengthens, and beautifies the hair; it contains no lead or mineral ingredients, and can now be also had in a golden colour, which is especially suited for fair or golden-haired children and persons. Four sizes.



(sa most cooling, healing, and refreshing wash for the face, hands and arms, and is perfectly free from any mineral or metallic admixtures; it disperses freckles, tan, prickly-heat, redness, pimples, &c.

Or PEARL DENTIFRICE. whitens the Teeth, prevents and arrests Decay, strengthens the gums, and gives a pleasing fragrance to the breath.

a beautifully pure, delicate, and fragrant toilet powder, and has lately been much improved. Each box has ins

Dr. Redwood, Ph.D.: F.C.S., &c. Sold in three tints -white, rose, and cream. Each box has inside the lid a certificate of purity from

Froduces immediately a perfect change in red or grey air, whiskers and eyebrows, to a glossy and permanent brown or black, which colour neither washing nor perspiration will remove.

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BEN JONSON ROAD STEPNEY, E. Sold in large Bottles, price ONE SHILLING. Sample Bottle, 7d.

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PILL, POWDER, & SALVE BOXES. FINELY-FINISHED FACE AND TOOTH POWDER BOXES.

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S. amped out of One Piece of Metal, thus avoiding Soldered Joints. NO INCREASE OF COST.

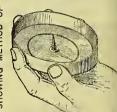
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THE NEW TIN BOXES for all kin of Herne cally Sealed Preserved Foods, DRUGS and CHEMICALS.

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IN WILLOW, PAPER, AND CARDBOARD. IMPORTERS OF

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A LARGE STOCK ALWAYS ON HAND. Samples and Estimates on Application.

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Enclosing your patterns and stating the quantities you require, estimates will be at once sent you free of charge.

A GREAT SAVING WILL BE EFFECTED.



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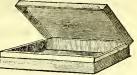
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62



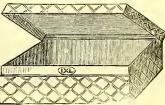
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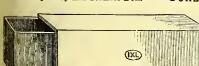
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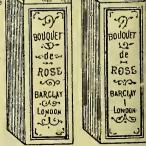
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Perfectly secure, Bottle being protected by inner wrapping of Patent Corrugated Card Board. Regular Sizes in stock; also with Divisions. Any Sizes or Shapes made.

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For expelling all kinds of Powders, insect Powder, Violet Powder, Fullers' Earth, French Chalk, &c.



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And given occasionally causes th Pig to lay on flesh rapidly.

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By supplying Show Cards, Posters, and Handbills, with Name and Address, FREE by Parcel Post. The Unsolicited Testimonials constantly coming to hand from large PIG KEEPERS, BREEDERS, and EXHIBITORS, and the rapidly-increasing sa is the greatest proof of their value.

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Mice eat it readily, at Die on the spot.

Has an immense Sale, and wherever introduced never fails to give sa faction.—Mice appear attracted to it as by magic, eat it readily, tumble or and die on the spot. Rata usually die in their runs.—Parties tronbled we Vermin may be cleared at once, either from Stacks, Houses, or Ships. Vermin may be cleared at once, either from Stacks, Houses, or Ships.

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From Mr. THOMAS COLTON, Agent for Selby.—A friend of mine p
chased a Packet of your VERMIN KILLER last night, donbting its efficat
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I duly received by post the Packet of your VERMIN KILLER, and fonn
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Sold in Packets. 3d., 6d., and 1s. each.

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No Chemist or Storckeeper should be without a surply.

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Any Chemist, on application THOMAS KEATING, Chemist, St. Paul Churchyard, London, can have these ser for enclosure to his London Wholesa The Bills are plain on or side, printed on four different colour large enough to wrap a 6 oz. bottl Two or three weeks' notice is required Please send two labels that printer ma add name and address correctly.

Is admitted by Hundreds that have used it to be the best Preparation known. 120 rats were found dead by one dressing. Has never been known to fail.



SANFORD & SON, having had 28 Years of Practical Experience in Poisoning Rats, Mice, &c., can with confidence recommend u as the Best Preparation known.

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and are found dead.
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Wholesale of BARCLAY & SON, SANGER & SON, NEWBERY & SONS, and others.

SUMMER IS COMING.

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WITH

INSECT POWDER

FINEST INSECT POWDER,

7 lbs., 1/6 per lb.; 56 lbs., 1/5 per lb.; 112 lbs., 1/4 per lb.; 5 cwt., 1/3 per lb.

WRITE FOR SAMPLE.

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"KROKUM"!!!

THE GREAT INSECT DESTROYER.

"KROKUM" is perfectly harmless to Human Beings and Animals.

"KROKUM" is put up in handsome Pepper Castors, which when empty form an ornament for any table, and are alone well worth the money.

WARRANTED PERFECTLY PURE.

1s.—In handsome Pepper Castors, Show Card with each dozen, 8s. per dozen, boxed.

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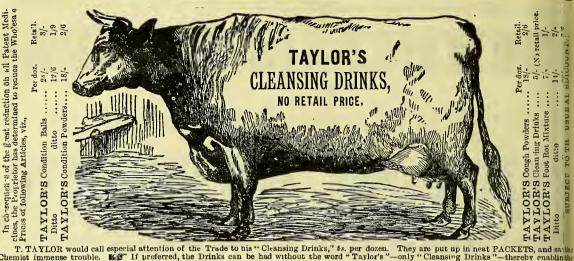
3d.—In Bottles with perforated cap, Show Card with each dozen, 2s. per dozen.

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THESE ARE GENERALLY ACKNOWLEDGED TO BE THE LARGEST AND BEST "GOT UP"
INSECT POWDERS IN THE MARKET.

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T. TAYLOR would call especial attention of the Trade to his "Cleansing Drinks," 5s. per dozen. They are put up in neat PACKETS, and sauther mist immense trouble. 183" If preferred, the Drinks can be had without the word "Taylor's"—only "Cleansing Drinks"—thereby enablinthe Chemist to affix his own slip label: but to secure this, when ordering ask for those with the pink label. NO RETAIL PRICE AFFIXED.

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JAMES' LIEUT. iorses. BLISTER (Manufactured by R. J. JAMES, the Grandson of the Inventor).

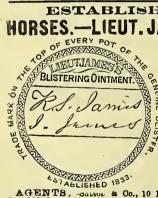
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"Observe the Trade Mark.—"A Horse's Head on the top of each Pot, and the signature, R. J. James."

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ESTABLISHED 1833. HORSES.—LIEUT. JAMES'S BLISTER.



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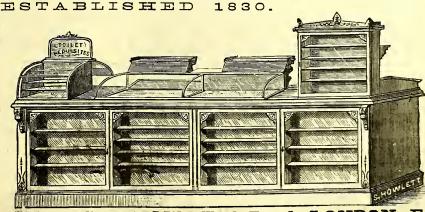
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INOR .- 38 Minor Candidates from this School were examined, of whom the following 27 passed-Mr. D. E. Jenkins

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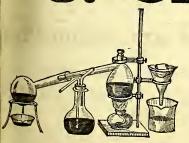
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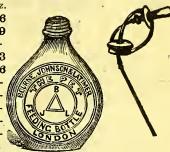
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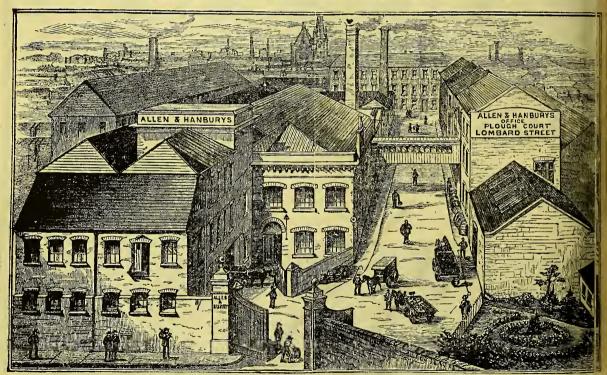
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CAUTION .- In consequence of certain dealers making unauthorised use of Baron Liebig's photograph, title, &c., Baron H. von Liebig finds it necessary to caution the public that the LIEBIG COMPANY'S Extract of Meat is the only brand ever guaranteed as genuine either by himself or the late Baron Justus von Liebig. Purchasers must insist upon having the LIEBIG COMPANY'S Extract of Meat.

PARIS, 1878-AWARD, THE ONLY GOLD MEDAL FOR PLUMBAGO CRUCIBLES. THE SALAMANDER BRAND OBTAINED THE SOLE AWARD FOR CRUCIBLES AT FRANKFORT, 1881 (GOLD MEDAL

(THE PATENT PLUMBAGO CRUCIBLE COMPANY), PHILADELPHIA CENTENNIAL EXHIBITION, 1876 - MEDAL AWARDED.

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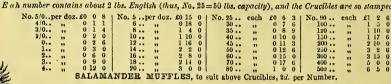
BATTERSEA WORKS, LONDON, ENGLANI (SOLE MANUFACTURERS OF MORGAN'S AND SALAMANDER CRUCIBLES)

Patented in Great Britain, Germany, France, Italy, United States, &c., &c., ARE NOT AFFECTED BY MOISTURE OR FROST.

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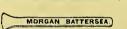


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SALAMANDER COVERS.



12-in. STIRRERS, 12s, per dozen.



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And thereby ensure getting DAMP-PROOF CRUCIBLES manufactured by

THE MORGAN CRUCIBLE COMPANY.

FLUXING POTS.

IDENTICAL WITH THE FRENCH IN QUALITY, FORM, AND CAPACITY.

No.	Height,	Hauteur,	Diameter,	Diameter,	Per dozen
	inches.	milli.	inches.	milli.	Crucibles.
0 1 2 3 4 5 6 7 8 10 13	2 2 2 2 2 2 2 3 3 4 4 5 5 7	*050 *055 *060 *070 *080 *090 *100 *110 *120 *135 *150 *185	10-14-14-14-14-14-14-14-14-14-14-14-14-14-	*030 *033 *036 *042 *046 *055 *062 *062 *068 *074 *080 *095	£0 0 4 0 0 6 0 0 8 0 0 10 0 1 0 0 1 2 0 1 4 0 1 6 0 1 10 0 2 4 0 2 9 0 4 9

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Are distinguished by the Brand

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BATTERSEA TRIANGLE.

Stammed as an illustration

1			io. wing						
No.	Height, inches.	Width, inches.	Crucibles per doz.	Covers, per doz.	No.	Height, inches.	Width,	Crucibles per doz.	Covers, per doz.
S W W	41 33 28 28 28	410 341 255 28	2/0 1/1 0/8 0/5	1/0 0/9 0/6 0/6	T V X Z	4 31 21 13	3% 2% 2% 2% 1%	1/6 0/10 0/6 0/4	1/0 0/9 0/6 0/6



NOTICE.—Care should be taken in all instances, when ordering, to specify the Crucibles, &c., manufactured by

(Sole Manufacturers of Morgan's), Battersea Works, LONDON, S.W. THE MORGAN CRUCIBLE CO. and Salamander Crucibles

by Appointment to the London Homocopathic Hospital, Manufacturers and Importers of

PRICE LISTS OF MEDICINES, MEDICINE CHEST, &c., POST FREE TO ANY PART OF THE WORLD.

MOORGATE STREET. LONDON. E.C.

Operative Chemists and Wholesale Druggists, (SUCCESSORS TO SIMS, SHAW & HORNBY. FOUNDED 1786.)

Acid Sulphurous. Dec. Benegæ Co. Conc. ., Sarsæ Co. Cono. Emp. Plumbi.

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Emp. Resinæ. Ess. Zingib (Soluhle).
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Manufacturers of Fresh Fruit Essences, &c. Liq. Sacch. Ust. Syr. Ferri Jodid. Phosp. Co.

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und Essence. "Cosguline" Cement. | Linseed Loze Kay's Compound Essence.
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Instant Cure for ToothLinum Catharticum Pills.
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Painless Solvent for Corns,

Linseed Lozenges. [Los Chloro - Linseed Cough Lava Cement.

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Export Orders suitably Packed and Forwarded to all parts of the World.

Prices and Discounts on application.

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DR. SULLIVAN, President Queen's College, Cork, writes :- "Mulledyne is a well-made preparation." DR. SULLY AN, Treadent Queen's College, Cork, writes:—"Mulledyne is a well-made preparation."

DR. QUINLAN, St. Vincent's Hospital for Consumptives, Dublin, writes:—"I conducted an inquiry in the hospital on the merits of the above therareutic, which has resulted in proving that rationts treated on Mullen Extract solely, and to the exclusion of Cod-liver Oil, Koumiss, or any other weight increaser, made a decided increase in weight, the cough ceased, the patients improved, and were much gratified at the treatment."

MULLEIN CIGARETTES (Paten'ed) for Asthmatic Affections

MULLEIN MANUFACTURING TURING CO, UPPER PRICES, 1s. 1.d., 2s. 9d., and 4s. 6d. LONDON, S.E. NORWOOD,

ESTABLISHED 1843.

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55 STREET.

And (late HENRY TURNER & CO.)

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ILLUSTRATED PRICE LIST ON APPLICATION.

THOMPSON & CAPPER have now for many years, with the greatest benefit to the Agents throughout the world, supplied, free of cost, Books for Gratuitous Distribution, compiled by themselves, containing complete directions for using the Homosopathic Medicines, a plentiful distribution of which invariably ensures a large sale. Handbil's also, with name, ad lib.

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Sells well everywhere, its beneficent qualities being attested to by physi fans in all parts of the world. (See Testimonials.) In 1s. 6d., 2s. 6d., 4s. 6d., and 8s. 6d. Bottles.

Wholesale Agents for the Dominion of Canada: - EYANS, SONS & MASON, Limited, MONTREAL.

MAY, ROBERTS & CO.,

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(Three Minutes' Walk from Aldersgate Street Station).

CATALOGUE of Druggists' Sundries, Patent Medicines, &c. sent post free on application.



FEEDING BOTTLES.

Green Glass Bottles, Boxwood-topped Corks, with Best White Rubber Fittings.

"THE POPULAR" ... 23/5 per gross.

Packed in One-gross Casks (Cask free).

"THE COLONIAL" ... 25/5 per gross.

Packed in One-gross Casks (Cask free).



The above, with White Glass Bottles, 2/- per gross extra.

If with Black Rubber Fittings, 4/- per gross extra.

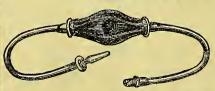
"MAY-ROBERTS" WATER BATH, REGISTERED.



This Water Bath will supply a long felt want amongst Chemists and Perfumers, where small quantities of materials have to be dealt with.

The **old form** of Water Bath necessitates the use of a **second vessel** for pouring the melted **Pomade**, **Cream**, or other substance into the bottles or jars in which they are sold. In the "MAY-ROBERTS" Water **Bath** the earthenware bowl can be lifted out of the tin containing the boiling water, the process of cooling being thereby very much expedited, and the contents can be **poured** into the bottles or jars **direct from the bowl**. The Bath is also supplied with an earthenware cover. 5-pint, 5/6 each.

HIGGINSON'S ENEMAS.



BEST Quality Rubber—Green, Black, or White—complete with Vagina Pipe and Shield per dozen 26/3

Ditto, Disconnecting ... , 27/3

SECOND Quality—Grey Rubber—complete with Vagina Pipe and Shield ... per dozen 18/6

5% discount on £5 worth, with or without other " Sundries."

NO TRAVELLERS EMPLOYED. Buyers are therefore spared their expenses.

EXCHANGE COLUMN.

TERMS .- Announcements are inserted in this column at the rate of one halfpenny per word, on condition that name and uddrass are added. Name and address to be paid for. Price in figures counts as one word.

If name and address are not included, one penny per word must be paid. A number will then be attached to the Advertisenest by the Publisher of The Chemist and Druggist, and all correspondence relating to it must be addressed to the "Publisher of The Chemist and Druggist, Colonial Buildings, Cannon Street, London, E.C.," the envelope to be endorsed also with the number. The Publisher will transmit the correspondence to the advertiser, and with that his share in the transaction will cease,

Dental and Surgical.

light pairs dental forceps, various, 2s. 6d., pair having duplicates. Campkin, Cambridge.

Water-bed, Maw's, 72 by 36, good condition; Windsor invalid chair, by Carter; pair crutches, Maw's fig. 3, good as new. Brown, Chemist, Dover.

Ontside dentist's show-case, nearly new, 12s. 6d. cost 25s.; celluloid apparatns, with 3 lbs. glycerine and celluloid, 20s., cost 40s., very little used. Norworthy, Dentlst, 108 Stoke's Croft. Bristol.

Superior mahogany instrument - case of 16 drawers, price 42s.; Dental Company's vulcaniser and press, cost 61. 10s., price 41.; 2 gasometers, 40s. and 30s.; Ash's 51, 10s. scagliola pedestai splttoon, 60s.; Ash's 121. 12s. flatting-mills, 81.; Ash's 351. Morrison chair, 181. Dentist, 172 Oxford Road, Manchester.

Drugs and Chemicals.

Pot. iodidi, Crawshaw's 6d. dyes; what offers? Royse, Stockport.

About 20 lbs. English beeswax, at 1s. 6d. Ellidge, Chichester.

30 lbs. gum olibanum, 9d., or exchange. Gater, Peckham.

Symes' musk, 1-oz. bottles, 21s. each; pot. iodld., B.P., 10s. 6d. per lb.; re-sublimed iodine, 10d. per oz. Richardson, Chemist, Alford.

Silver chloride, pure, 42 oz.; also quantity of birdlime in tins; what offers? Willis, Chemist, Stockport.

Potass. iodi., 11s. per ib.; 3 lbs. for 31s. 6d., 7 lbs. for 70s.; warranted best make. J. W. Feltwell, Chemist, 91 Hammersmith

Four Winchesters limonis, fine; four original bottles otto rose, virg.; 28 lbs. gum myrrh; 14 lbs. bals. toint.; 14 lbs. opinm Turkey, hard, fit for tinoture; 28 lbs. gum Benjamin; offers wanted. A. Jones, 21 Piercefield Street, Haverstock Hill, N.W.

Optical.

Offers wanted for about 7 doz. steel spectacles. 68 8.

Proprietary Articles.

Sixteen 11s, solar elixir, at 6s., carriage pald.

Apparatus.

New drug-mill by Follows & Bate; cost five guineas; half price, or exchange; not been used. Kemp, Horncastle.

Educational.

Tully's materia medica cabinet, cost 17. 1s.; Tully's "Herbarium," cost 7s. 6d., never been used; what cash offers? Arthur Wood, Ullesthorpe, Lutterworth.

The indigenous officinal (medical) plants, beautifully mounted on cardboard, only 7s. 6d.; indigenous wild flowers, equally cheap. Higginson, Newferry, Birkenhead.

Botany.-The indigenous official plants of the Pharmacopæia, beautifully mounted on cardboard, only 7s. 6d.; British wild flowers, mounted or numounted, equally cheap. Hlgginson, Newferry, Birkenhead.

Attfield's "Chemistry," 6th edition, 7s. 6d.; Wills' "Materia Medica," coloured plates, 6s. 6d., cabinet 3s.; "Elements of Pharmacy," 4s. 6d.; Pereira's "Selecta Præscripta," 4s.; all unsoiled, carriage paid. "Beta," 319 Oxford Road, Reading.

Set of illegible autograph prescriptions (original), 2s. 6d., as presented to the Pharmaceutical Society of Ireland for their examinations; 30 prescriptions (catch and difficult) given to dispense at Minor during past 12 months, 2s.; 50 questions asked of successful students at last Minor, 1s. 1d.; lot of cheap, almost new, books; stamp for list. Saunders, Medicai Tntor, 6 Roohester Square, N.W. (Note change of residence.)

Literature.

Pharmaceutical Journal posted Mondays; what offers ? Lewis, Great Western Street, Wednesbury.

Chemist and Druggist for 1881-82-83-84, in clean condition; what offers? Wm. Gurnell, Chemist, Ryde.

Squire's "Companion," 8th edition, new, highest offer accepted, or exchange in drugs. "Medicus," Newferry.

Withering's "British Plants," 4 vols., 31 plates, calf, good copy, 10s.; Savory's "Domestle Medicine," nearly new, 2s. 6d. J. Brown,

Pharmaceutical Journal posted Monday morning, offers wanted; Taylor's "Medical Jurisprudence," 6th edition, 3s.; Wilis' "Companion to Practical Botany," 2s.; Thorowgood's " Materia Medica," nearly new, 3s. 6d., published at 6s. 6d. Judge, 3 Pownall Terrace. Kennington Road, London,

Soda-water Plant.

Barnett & Foster have some second-hand sodawater machinery of their own for sale. Apply, 26T Eagle Wharf Road, Hoxton, N.

Second-hand soda-water plant-several in stock. Address, Brathy & Hinchliffe, Sandford Street, Ancoats, Manchester.

Rowskill's tube-machine for patent bottles, with glass barrel syrup-pnmp; pressure-gange, 4-inoh, indicated to 200 lbs.; both in good condition; offers wanted. Varney, Chemist, Oxford.

Soda-water plant by Barnett & Foster, with half-horse "Otto" vertical gas-engine and syphon-filler; all in perfect working order for 300 dozen daily; ready for Instant delivery; may be seen in action; price for all 601. Parsons, Gallowtree Gate, Leicester.

Shop Fittings.

Show-bottles, specle-jars, shop-jars (all sizes and colours), lamps, store-bottles, glazed cases. 21 Broadway, Deptford.

Bunsen gas stove and stand, as Maw's fig. 2, forwarded free for 42 stamps. Kneen, Anerley Pharmacy, London, S.E.

The complete fittings of a chemist's shop, choap, owing to alterations. James, Upper Tulse Hill, Brixton, S.W.

Specie-jar, 27 inches high, plain gilt top, as fig. 20 Maw's list, marked "Magnesia," quite new; what offers? H. H. Heslop, Klngswinford, Dudley.

Bent plate-glass counter-case, 22 in. long, 10 in. wide, 20s.; two 1-gallon carboys, out stoppers, 5s. the pair. Smlth, 723 Old Kent Road.

Sign-board, 12 inches by 96 inches, word "Pharmacy" ent in gold letters on black ground and varnished; never been used; cheap at 12s. Ashworth, 161 Bury New Road, Manchester.

One-arm nickel-plated fountain for counter use, and 6-gallon portable copper cylinder for agrated water, tubing, &c., all complete, and as good as new; price 61., cost 121. Sage, Chemist, Frome.

Labelled shop - rounds: narrow-monthed, 51 40-oz., 49 20-oz., 22 10-oz., 32 3-oz.; widemouthed, 24 40-oz., 36 20-oz., 10 3-oz.; 13 40-oz. blue syrups; 4 32-oz. oils, tin covers; 25 2-lb., 20 4-oz. white-covered pots, fig. 13. Hunn, Chemist, Henley-on-Thames,

Counter scales and weights, 15s.; 4-gallon pearshaped carboy, 15s.; homoeopathic case, containing medicines, 10s.; narrow and wide mouthed unlabelled shop-rounds, 5d. each; 12 4-lb. ointment-jars, dark blue, 25s. N., 76 St. George's Road, Tufnell Park.

Second-hand Fittings.—About 25-foot druggist wall-fittings, 12-foot wall-case, window enclosure, dispensing-screen, desk and case, cigar case, four carboys, two specle jars and stands, drug-scales, 14 dozen bottles and pots; 381. Hawke & Son, London.

Two flat ebonised plate-glass counter-cases, 6 feet long, 18 inches wide, each with three doors, silver-plate backs, cost 91. 10s. each, to make room for shop alterations, no reasonable offer refused, in good condition; one soda-water stand, fig. A 59 Maw's list, cost 41. 10s., will take half price. Longley, North Street, Leeds.

Second-hand Glass, &c .- Two specie jars, arms, covers, 21 in., and stands, 31.; 4 specie jars, sorolls, covers, 281 in. high, and plinths, 302. each; three 3-gal. carboys, and one 2-gal., flat front, and stands, 27s. 6d.; two 3-gal. eyllnders, 10s.; 15 1-ib. blue pots, and 55 stoppered rounds, no labels, 38s. Hawke & Son, London.

One 12-ft. range, second-hand, drawers newly painted mahogany, with gold labels and glass knobs, lockers under, 130s.; 1 12-ft. range, 66 new mahogany-fronted drawers, with plate-glass labels and crystal knobs, 91. 10s.; 4 4-gallon carboys, good shape, 36. lot; 1 4-ft. dispensing-screen, as Maw's A 56, in very good condition, 60s.; 48 new 10-oz. narrow-mouthed rounds, labelled, 36s. lot; 12 3-lb. new white jars, labelled. 18s.; 2 8-gal. pear-shape carboys, 15s. each; 1 bent-front toothbrush case, 18 in. long, 21s.; 1 6-ft. ebonised dispensing-screen, with mirror centre, very handsome, 61. 10s.; 1 4-ft. counter-case, similar to A 6 Maw's. R. Tomlinson, Midland Medical Fitting Works, 18 St. Paul's Square, Birmingham.

Second-hand Fittings.-Plate-glass counter-case 43 in. long, 16 in. wide, trays, 21.; mahogany wall-case, three bent plate-glass flaps, silver and plate ends, glass drawers, 73g in. long, 21 in. deep, 191 in. high, 71. 10s.: counter-case, as Maw's A 4, 42 in long, 25 in. wide, 23 in. high, no carving, 61.; mahogany wall glass-cases, lower compartment with open shelving pilasters. 1323 in. long, 100 in. high, 81.: mahogany window-enclosure, ornamental glass; plateglass facia, black - ground, embossed "Pharmaceutical Chemist." 1461 in. by 14 in., 3l. 10s.; 13 plate-glass shelves, polished edges, various lengths and widths, 2s. each; 2 ditto, 68 in. by 6 in., and 6 hrackets, 15s.; 2 counter gas pillers, 15s.; 5 window do., 12s. 6d. Hawke & Son, Wild Court, Great Wild Street, London.

Special Notice.-The whole of the stock, fixtures, show-cases, and utensils, suitable for all trades, will be sold at a great sacrifice. to save removal to more extensive premises (of which due notice will be given). Counters, 6 ft. long, 7 ft. long, 8 ft. long, 81 ft. long, 9 ft. long, 10 ft. long, 11 ft. long, 12 ft. long, 13 ft. long, 14 ft. long, 16 ft. long, 18 ft. long, as A 61, 62 Maw's-these are of the best quality, nearly new, from a co-operative store; counters, 8 ft. long, 10 ft. long, 11 ft. long, 12 ft. long, 13 ft. long, 14 ft. long, as fig. A 60 Maw's; quantity nests counterdrawers, to go under retail and dispensing counters; bent plate-glass counter-cases, 2 ft. long 30s., 2½ ft. long 35s., 3 ft. long 60s., 4 ft. long 75s., 6 ft. long 5l.; counter-cases, A 1, 3, 4, 5, 6, 8, 9, 10, 12, 13, 15, 16, 17, 18 Maw's; upright counter-cases, with and without desks, A 31, 32, various heights: eigar-cases, A 34, 35; sponge-cases, A 41, 43, 42; show-stands, A 38, 40; dispensing-case screens, 3 ft. long, 3 ft. 6 in. long, 4 ft. long, 4½ ft. long, 5 ft. long, 6 ft. long, 7 ft. long, as A 54, 55, 56 Maw's; 5 ft. long, 6 ft. long, 7 ft. long handsome dispensing-screens, with mirror centre-glass case at each end; soda-water stands, A 57; dispensing counter and cases complete, A 66, 67, 68; plate-glass case-fronted counters, A 63; drug-drawers, A 79, 80, all lengths; window-enclosures A 81; shop-fittings complete, with gold and glass labels, A 82, 83, 84, 85, 86, 87, 88 Maw's, all sizes; shop chairs, stools, steps; quantity gold-labelled shop bottles and jars, all sizes; specie-jars, carboys, scales for shop or warehouse, and weights; ten and coffee, canisters, oil-cisterns, iron and compositions mortars and pestles, composition funnels, copper measures, glass percolators, pillmachines, mixing - mills, store - canisters, stamped graduated glass measures, all sizes; quantity partitioning, shop doors, shelving, warehouse counters, fittings, &c.; quantity plate-glass shelves with polished edges, mirrors in frames, and other miscellaneous goods too numerous to mention. Lloyd Rayner, General Shopfitter, 46 De Beauvoir Crescent, Kingsland, London, N. Nest 45 mahogany drawers, 6 ft. long, 80s.; nest 32 painted drawers, 61 ft. long, with lockers 55s.; nest 40 drawers, 7 ft. long, with 4 lockers, 70s.; nest 59 mahogany drawers, with 4 lockers; curved counter glass case, 32 in. long, 11. 15s.; flat ditto, 36 in. long, 21. 10s.; bent plate-glass counter-case, 46 in. long, 3 trays, 31; flat ditto, 39 in. long, 21. 10s.; curved plate-glass countercase, 42 in. long, Treble's, 21. 2s., imperfect: large upright ebonised wall glass cases, 4 doors, spring catches, 92 in. long, 72 in. high, 14 in. deep, in 4 distinct sections, 51. lot; 2 upright ebonised glass cases, each 153 in. long, 32 in. high, 15 in. deep, each with 8 doors and spring catches, suitable for counter-fronts, 41, 10s, each: nest 28 shop-drawers, 21; mahogany-top counter, 9 ft. long, consisting of 4 zinc-lined bins, 41.; 20-oz. engraved acid-bottles; 2 prescription. desks; set 22 4-lb. blue-labelled ointmentjars, 2s. 8d. each; quantity stoppered shopbottles, all sizes, with and without gold labels; 2-gallon iron mortar and pestle. 12s, 6d.; 3-gallon ditto, 18s.; 1 24 5-grain pill-machine, 11s. 61.; 1 pair 2-lb. French counter-scales, 12s.; 1 pair 4-lb. ditto, 15s. 6d. Simcock, 17 Guildford Street, Leeds.

E. Natali has for sale a large quantity of fittings, suitable for chemists, grocers, &c., which must be sold at once on account of alterations; no reasonable offer refused Glass counter-cases, bent plate-glass, 2 ft. long, 30s.; 2 ft. 6 in. long, 35s.; 3 ft. long, 60s.; 3 ft. 6 in. long, 70s.; 4 ft. long, 75s.; 5 ft. long, A 18, 5l.; 6 ft. long, A 18, 51. 10s.; 8 ft. long, 81.; toothbrush cases, bent-plate, A 10, to open at back, 30s.; ditto, revolving-front, 55s.; A 9, 30s.; plate-glass cases, A 2, 3 ft., 35s.; 3 ft. 6 in., 40s.; 4 ft., 50s.; 5 ft., 60s. Wallcases, 12 ft. long, 61. 10s.; 10 ft. long, 9 ft. high, 201.; 11 ft. long, 71.; 7 ft. 6 in., as A 86, 111. 10s. Fixtures, drawers, shelving, with cornice over, A 84, 6 ft. long, 6l.; 8 ft. long, 8l.; 10 ft. long, 10l.; 12 ft. long, 121.; also as A 82, 12 ft. long, with cupboards, drawers, shelving, &c., 91. Counters, painted-fronts, mahogany-tops, 5 ft., 6 ft., 8 ft., 10 ft., 12 ft., 14 ft.; ditto, with polished oak fronts, 7 ft., 10 ft., 14 ft., counters with mahogany polished fronts, 9 ft. long, 12 ft. long, 18 ft. long; counters, with maliogany and plate-glass cases in front, 4 ft., 6 ft., 9 ft., 12 ft., 14 ft.; dispensingscreens, 5 ft. 6 ft., 7 ft. 6 in., as fig. A 55; 3 ft., 3 ft. 6 in., 4 ft., as A 54; dispensingscreens, any size, glass case at each side, silvered plate glass centre, with marble slab in front, very elaborate, 71.; desks, with cases in front, 40s., 50s., 60s., with silvered glass back, inside case, 65s.; sponge-cases, A 41, 60s.; A 43, 95s.; show-stands, A 37, 55s.; as fig. 5, 50s.; fig. 6, 60s.; specie-jars, with gold covers, 27 in. high, royal arms' &c., 80s. pair; a quantity of blue and white ointment-jars; mortars (new), funnels (new), pill-machines (new), to cut 24, 16s.; hlack stock bottles (new), labelled any names, 15s. doz.; royal arms, splendid condition, for outside shop, 45s.; a 12-ft. run drawers, with shelves and cornice over, lockers under, glass knobs and glass labels, 71. 10s.; 30 doz. good gold-labelled bottles, 8s.; 2 12-gal. carboys and stands, 36s. each; a quantity of mahogany-fronted shelving, pilasters, cornice with fancy iron cresting on top, cheap; 18-foot run glass cases for wall, 6 ft. high, glass doors top and bottom, could cut these to suit a purchaser: 14-ft. 6-in. mahogany-top counter, with glass cases in front fitted at back with 44 drawers. E. Natali, 207 Old Street, near Pitfield Street, London, N.

Formulæ.

Genuine Recipes.—Quinine wine (aromatic), splendid flavour; balsamic cough syrup; 12 stamps each. "Snowball," 22 City Road, Newcastle-on-Tyne.

Ten popular perfumes, equal to the leading brands, and far superior to any published formulæ, 11, 10s.; a single recipe, 5.; these have now been retailed seven years, and are preferred by my customers before all other makes. Pharmaceutical Chemist, 124 Queen's Road, Norwich.

Tie mixture, an almost certain cure for the or toothache; almond tablet, glycerine jelly (perfectly clear), cold cream, are all satisfactory in use and elegant in appearance; tooth-paste, cheap to make and pleasant to use; formulæ 1s. 6d. each, two for 2s. 6d. W. Arthur, 31 Thomas Street, Cheetham Hill, Manchester.

Reliable Recipes, wanted daily, all guaranteed

20

genuine, as supplied to over 1,000 chemists at home and abroad; particulars of any on application: detailed list of 280, post free, Note my advertisements these last four years in this Journal. "Satisfaction guaranteed." All communications are strictly confidential, or I could give over 500 testimonials, "Glycerine Cream," an elegant preparation for roughness of skin, invaluable to all, certain sale; "Entirely New Remedy for Toothache," gives instant ease, not injurious to other teeth; "Nigerine," jet-black, waterproof patent blacking, cheaper, sweeter and better than Nubian; "Digestive Relish," best and cheapest sauce in creation, from 3s. gallon; "Lupuline Bitters," equal to American in every respect, one-third price. "Limes and Glycerine," elegant, creamy, snow-white, quite inseparable, pronounced best in market; "Foaming Dentifrice, resembles Floriline, costs one-eighth; "Rhenmatic Embrocation," most excellent, cannot be surpassed in cheapness and efficacy; "Blood-purifying Powder" (London surgeon s recipe), popular spring and autumn remedy; "Anti-spasmodic Elixir," simple reliable, always efficacious; "Camomile and Quinine Pills" for indigestion, &c., frequently preferred to Norton's ; "Effervescent Depurative Saline," facsimile of Eno's, costs 10d. lb., entirely soluble, keeps well; "Cryptzymosis," certain speedy cure for gleet, &c.; "Mist. Gonorrhœa" (capivi), nauseous taste masked, unfailing remedy; "Hair-restorer" (sine sulphur), clear, sweet, economical, confidently recommended; "Liver Pills" (vegetable), gentle action, always effectual; "Lavender Water," superb fragrance, lasting, equals Sainsbury's; "Occasional Pills" (for ladies), most reliable, preferred to Widow Welch's; "Essence for Deafness," simple and effectual; "Podophyllin and Taraxacum," pleasant taste, vastly superior to similar preparations; "Pile Powders and Ointment," cure and prevent hæmorrhoids; "Quinine and Iron Tonic," bright and unchangeable, resembles Pepper's; "Worm Syrup," entirely vegetable, pleasant and rapid action; "Ringworm Specific," cer-tain rapid cure; "Tic Pills," unequalled in efficacy, many testimonials; "Chloredync," inseparable, perfectly soluble, quits equals Brown's; "Marking Ink," in-delible, no wastc, creditable to seller; "Fumigating Ozonic Ribbon," cheapest, sweetest, perfect disinfectant. All above guaranteed genuine formulæ, are profitable, and may be recommended with confidence. Price 1s. 1d. each, 3 for 2s. 6d., 25 for 11., post free, with full particulars for making, &c., by T. Brooks, Chemist, Louth, Lines. N.B .- Detailed list sent post free.

ragrant foaming dentifrice (like "Floriline"); marking ink, sine silver (aniline), writing executed defies chemicals; effervescing fruit saline (resembles Eno's); magic neuralgic drops (never-failing remedy); quinine and iron tonic (resembles Pepper's); limejuice and glycerine (inseparable, white as milk); hlue-hlack ink (non-corrosive, sine iron or galls); cherry tooth paste (never ferments, like Gosnel's); hrilliantine (inseparable, like Rimmel's; pill - coating, (pearly white, no mucilage or mastic used); glycerine jelly (perfectly transparent); crimson marking ink; hair-restorer (colourless, no deposit, sine silver); aromatic vinegar; toilet vinegar (as Rimmel's); platepowder (like Stevens' "Silicon"); Oleum Flavum Conc., for pomades (colour stable); soluble essence ginger (like Hay's); corn solvent, clear (not acid); liquor copaibæ comp. c. huchu et matico (mixes clear with water); gonorrhœa paste, excellent (Dr. Ricord's); taraxacum and podophyllin (resembles Pepper's); with many others; send stamp for list, stating wants. The toilet preparations are identical with those prepared by a wholesale West-end firm; others equally good; all inexpensive to make: 5s. each (five for 1l.). Readers are cautioned against cheap and worthless lmitations. I was first to advertise formulæ in this journal. "Analyst," care of Mr. Warnes, 6 Rochester Square, N.W. (Note change of address.)

Miscellaneous.

arge number of lantern slides for sale. Apply:
Piggott, Chemist, Huddersfield.

heap, quantity first-class elgars, in good condition. Chemist, 50 Higher Bridge Street Bolton.

iome good sets of lantern-slides for disposal; will exchange for anything useful. Piggott

Brothers, Leighton Buzzard. Halse's galvanic hattery, twelve silver and zinc

cells, cost when new 101. 10s.; price 41., or offers. Hagon, Chemist, Cardiff.

A job lot of good square hine, price 40s. per cwt., lu ½-cwt. lots; Nichol's bine, 7d. per lh., in ½-cwt. lots, 8d. per lb. smaller quantitics.
 A. Sinclair, Ullesthorpe, Lutterworth.

Surplus stock.—Several barrels extra-refined white paraffin, quite sweet, $7_{4}d$. gallon, free on Birmingham rails; 4 lhs. iodide potass. English make, 10s. lh. Beech, Druggist, Ladywood, Birmingham.

Cigar-case (A34 Maw's), 14s.; Avery's weighing-machine, 5 cwt., 2l. 10s.; 52-inch hicycle, roller-hearings, 2l. 15s.; truss (prolapse rectum), 8s. Gant, Raunds, Northamptonshirc.

"Enterprise" drug-press, almost new; also student's microscope, three powers, in mahogany case; 2t. for hoth, or 10s. the press and 30s, the microscope; hoth good hargains-Address, Singleton, Chemist, Preston.

Bound series Journals from 1853; Chemist and Druggist Diary, 1885; 2nd vol. Pereira, 1842; other chemical works; 6 doz. hand, cut sponge, 1s. 6d. to 2s. 6d.; sundries-65/41.

Twenty or thirty gross hock hottles, at 5s. per gross; 20 gross plain sodas, at 8s.; 20 gross plain splits, at 7s. 6d.; also a number of 3-dozen cases with lids. Mr. Coulsell, Coffee Tavern, Burhage, Buxton, Derbyshire.

Two nests mahogany-fronted drawers, 9 feet and 5 feet; 8-foot mahogany-top counter; several dozen Chemist and Druggist Optical Association spectacles; all in good condition; low price for cash, or saleable patents in exchange. Birkheck, Chemist, Lincoln.

Microscope, powerful, on hrass stand, 30s.; wood leg for showing elastic stocking, 5s. 6d.; printing-machine, prints up to 8 hy 6 in.' 15s.; complete set of lawn-tennis and net 20s.; Scott's Waverley novels, 25 volumes' fully illnstrated, 60s. W. Nalen, 26 Bissel Street, Birmingham.

Surplus Stock.—Four gross 1½-oz. common vials for 15x; 3 gross 1-oz. stoppered Luhins, 16x. 6d. gross; 3 cases Craven's vermin-killer, 4x. 9d. each; 13 doz. hent feeders, hlack fittings, 2x. 3d. doz.; 10 doz. straight fiint feeders, hlack fittings, 2x. 4½d. doz.; 2 doz. ditto, white fittings, 2x. 2d. doz.; 2 2x. 9d. Rowland's Odonto, 1x. 8d. each; 2 gross 1d. oval furniture cream bottles for 4x. 6d.; 400 7-in. circular filtering-paper for 2x., 300 8-iu. for 2x., 300 11-in. for 2x. 6d., 200 12-in. for 2x.; 1 gross 3-oz. squat wood-capped pomade-bottles, 12x. 6d.; 2 doz. Condy's crimson fluid, 7x. doz. Simeock, 17 Guildford Street, Leels.

WANTED.

Engine or engine-arm. Dentist, 172 Oxford Road, Manchester.

Useful set of tooth forceps; must be in good condition. Hagon, Chemist, Cardiff.

Apparatus for Limousin's cachets, in good condition. Wilson & Son, Harrogate.

Sponge-case, A43, good condition; state lowest price. Bentley, Chemist, Sheffield.

Drugs, sundries, sheep-dip; send list. Pattinson, Barnard Castle.

Accurate pair warehouse-scales, weighing 1 to 28 lbs. Kemp, Horncastle.

Marhle mortar, 4-pint capacity, perfect; state

price. Gowen, Berkeley, Gloucester.

Foster's "Physiology," good price given for copy of third edition; Cooley's "Practical Receipts." "Student," The Willows, Buxton.

African hair-restorer, hridal houquet hloom; open to huy soiled or unsaleable patents. Mickle, Chemist, Stanley Road, Liverpool.

Newth's or Wormell's "Natural Philosophy," and Roscoe's "Chemistry," recent and cheap. J. Moyle, 25 Broadway, Hammersmith.

Postage Stamps.—Advertiser will purchase a good collection. H. R., 18 Villa Road, Handsworth, Birmingham.

Copy of Squire's "Pharmacoposias of the London Hospitals," State lowest price to W. W., 34 Palmerston Road, Southsea.

Chemist and Druggist for January and August, 1880. Apply to W. Hodsdow, 37 St. John Street, West Smithfield, E.C.

Upright counter-case, mahogany, 6 feet 5 inches long, 27 inches high, about 9 inches deep, shelved back, plate glass preferred. Lloyd, Ahergelc.

Wall-case, all or partly shelved; ditto, glassfronted, slide-doors preferred, height 102, width 118, depth 11 inches. Cantrell, Chemist, Morley, Leeds.

Attfield's "Chemistry," Bentley's "Botany," Royle's "Materia Medica," Wills' "Pharmacy," recent editions; state price for each or all. Hy. Chaloner, Church Lanc, Aston, Birmingham.

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Marking-ink (the new dragon), prize medal Paris, 1882; address of maker or sole agent. 66/3.

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When replies to an Advortisement are to be received at our Office, an tracharge of 6d. will be added, and this will pay for transmitting same.

Remittance must accompany any order for either of the above classes Advertisement.

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OR DISPOSAL, a first-class Retail and Dispensing Business, situated in one of the most fashionable and increasing suburbs of Birmingham, r particulars apply to C. G. Crooke, 270 Moseley Road, Birmingham.

O BE SOLD, an old-established Business, situated in a Mannfacturing town in Lancashire; returns nearly £1,000; post office attached; rent 50. Address, B. P., care of James Woolley & Sons, Manchester.

LD-ESTABLISHED Light Retail and Prescribing Chemist's Business, in one of the most important seaports in South Wales, for Disposal, in usequence of ill-health; price £350. "Chemieus," Merlin Villa, Routh oad, Cardiff,

[ERBALIST and Drnggist Business to be Disposed of, on exceptionally easy terms, in one of the main thoroughfares of North-West Loudon; perior fittings and fixtures; satisfactory reasons for leaving. For or there particulars apply, by letter, to A. B., 27 Park Terrace, Shirland load, W.

A hight Retail, Dispensing, and Prescribing Business; good-class; no heavy; full prices; pleasant locality; changed hands only once in 0 years; returns over £800, increasing; satisfactory reasons for leaving, didress, "Chemiens," care of Mr. J. O. Walters, Hop Merchant, Shrewsury.

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DARTNERSHIP OR SALE.—Old-established Druggist and Wholesale and Retail Spirit and Wine Business, in a large town in South Wales; oming in for partnership about £1,000; none but principals treated with, pply, by letter, to Messrs. Hodgkinson, Prestous & King, 81 Bishopsgate treet Without, London, E.C.

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TO WHOLESALE AND MANUFACTURING CHEMISTS' ASSISTANTS.—FOR INDIA.—Wanted, immediately, in a first-class firm, a competent Man; well up and experienced in Laboratory work; good dispenser with Minor qualification; age between 25 and 30; must possess unexceptional personal references; 3 years' engagement; liberal terms. Write "India," earc Pottle & Son, Royal Exchange, London, E.C.

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RELAND. — Agencies and Commissions. -- Advertiser, having large connection with Chemists, Grocers, Ironmongers, &c., desires Agencies or Commissions for articles connected with above trades. Address, Mr. Holmes, Commission Agent, Offices, 19 Denzille Street, Dublin.

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OPREAD on Silk, and suitable for sale in pennyworths, per post, 2s, 6d, per yard, 16 inches broad. ARCHIBALD PATERSON, Chemist, 133 Govan Road, Glasgow.

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"Phosphorine Elixir" contains phosphorus in the free state, combined with other nerve-bracing and life-giving properties. Its appearance is clegant, taste pleasant, action rapid, not followed by unpleasant cructations of the stomach; no difficulty in preparing, and not liable to decomposition; it is, in fact, both in appearance and action, "all that can be desired."

Chemists wishing to introduce a profitable and reliable proprietary will

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On account of expense in obtaining this recipe, I am compelled to charge 5s., with every particular for manufacture. My detailed printed list of 280 recipes at 1s. 1d. each, or 6 for 5s., I shall be glad to post free to any chemist at home or abroad.

See Exchange Column in this Journal these last four years. Terms, satisfaction guaranteed.

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T. BROOKS, Cremist, Louth, Lincolnshire.

NOTE! DRUGGISTS' SUNDRY BARGAINS.

BENT feeding-bottles, black fittings, 28/gross. Indiarubber DENT feeding-bottles, black fittings, 28/ gross. Indiarubber black tubing 8/6 lb. Brack indiarubtor teats, 5/6 gross. Superior medical bottles, plain or grad, in flats or ovals, 3 oz., 6/6; 4 oz., 6/6; 6 oz., 7/6; 8 cz., 7/6; 10 oz., 10/9; 12 oz., 11/; 16 oz., 14/6 per gross. Superior white fint vials, 1 and 2 drachm, 3/; ½ oz., 3/3; 1 cz., 3/9; 1½ oz., 4/6; 2 oz., 5/3 gross. 2 oz. fluted pomade bottles, 6/gross. 1 cz. upright gally-pots, 4/gross. Blue earthenware shop jars, ½ lb., 5/6; 1 lb., 7/6; 2 lb., 14/; 3 lb., 22/; 4 lb., 30/ dozen. Gold paper labels, assorted sizes. for shop-bottles, &c., 2/10 dozen. Higginson's enemas, 27/ per dozen. American enemas, 18/ dozen. Pill boxes, 1 drachm, /4; 2 drachm, /5 gross. Seidlitz demy, 7/9 resm. White demy, 4/ream. Thick or thin wax tapers, 1/1 per lb. Verified glass measures. 1 oz., 7/; 2 oz., 8/6; 4 oz., 11/; 10 oz., 14/; 20 oz., 19/; 2 drachm, 8/6 dozen. 1d. fuller/s-earth, 4/ gross. Guttapercha tissue, 6/ lb. 5-grain 24-pill machines, 16/6 each. French counter-scales, 2 lb., 13/6; 4 lb., 16/6; 10 lb, 22/pair. Best circular-jointed tooth-forceps, all kinds, 4/3 pair; nickel-plated ditto, 5/pair. French extracts in 1 lb original tins, 8/6 each. Good value in wash-leathers, per dozen, 3/6, 5/, 7/3, 9/6. Superior thread elastic stockings, per pair 4/6. Vaccination shields, 2/ dozen. Hunt's bottle casts stockings, per pair 4/6. Vaccination shields, 2/ dozen. Hunt's bottle casts, assorted, /10½ gross. Transparent glycerine soap, /6 lb. Good vial-corks, /4, /6, /8 per gross. Chemists' assorted coloured twine, /8½, /10½, 1/per lb. Soft loose copaiba capsules, 8/ per 1,000; 1/ oval boxes ditto, 4/9 dozen. Cork-pressers, /9 each. 2 oz. congb-mixture bottles, Kaye's patent, 7/ gross. Small boxwood cork Preston salts, 15/ gross.

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Pursuant to Statute 22 & 23 Vic., c. 35

NOTICE is hereby given, that all creditors and oth
persons having any DEBTS, CLAIMS, or DEMANDS against a
ESTATE of THOMAS BARBER, late of No. 29 The Canal, in the City
Salisbury, Chemist and Druggist, deceased (who died on the 10th day
November, 1834, and whose will was proved on the 20th day of Februa
1835), who have not already sent in particulars thereof to me (the und
signed), are hereby required to do so on or before the 25th day of Mar
1835, after which day I shall proceed to distribute the assets of the si
deceased among the persons entitled thereto, having regard only to t
debts, claims, and demands of which I shall then have had notice.

Dated this 25th day of February, 1835.

CLEMENTEA MARIA BARBER,
Executrix of the said Thomas Barber, deceased
High Street, Salisbury.

YATES.

Chemists' Shop Fitter, Shop Front Builder, an Glass Show Case Maker.

DENTIST CASES.

Plans and Estimates supplied for Work in any part of the Kingdo

9 CAMDEN STREET, LIVERPOOL. See July issue of THE CHEMIST AND DRUGGIST for List of Sho Fitted by W. S. Yates.

SUGAR COATED PI

R. HAMPSON prepares the Pills of the Pharmacopoeia, and a grevariety of Pills from convenient formulæ; also Pills from privatormulæ. The Pills are made of the best ingredients, and being quest and perfectly diffusible, invariably give satisfaction. A Price Current, with the Moless Houses. Special quotations for large quantities.

205 ST. JOHN STREET ROAD, E.C.

RANDALL'S BLACK CURRANT

Net Cash. To Acc LOZENGES.

Plain Black Current, old square rough oval Black Current and Ipecacuanha

RANDALL & SON, Southampton,

Who will forward Samples by post on application.

Also, Brown COUGH LOZERGES, 2s., 2s. 2d., 7 lbs. stamped with name free and Musk LOZENGES (Special), 2s. 6d., 2s. 8d.

N.B.—Medical Lozenges of every kind,

Including those of the Pharmacopecia of the Hospital for Diseases of the

Throat, London.



Wholesale—F. CROKER, 27 KING WILLIAM ST., STRAND, LONDON, W.C.

TO MANUFACTURERS OF DRUGGISTS' GOODS, SUNDRIES, AND SPECIALITIES OF ALL KINDS.

SPECIAL COPIES of 'THE CHEMIST AND DRUGGIST," for MARCH 15, will be sent to ALL ENPORT MERCHANT SHIPPERS of such Goods in the United Kingdom not already Subscribers. It will be filed for reference by nearly everyone who receives it, and affords a capital opportunity for commencing a series of Advertisements

42 CANNON STREET, LONDON, E.C.

E. + ** th Gi th Gi Bath Suth C Bath C Wash Wash SUF

GEORGE PATTISON'S

BATH GLOVES

reo Sponge Gloves, No. 1		(best white. Retail 6d.) 4/0 per dozen]	air.
reo Sponge Gloves, No. 2	••	(best white, large, with red binding) 4/8 ,,	
rco Sponge Gloves, No. 3 C quality		(thin white) 3/0	
rco Sponge Gloves, No. 4 C quality		(thin white, large, with red binding) 4/0 ,,	
den Sponge Gloves, No. 1		or Turkish (best white, extra stout quality, large) 5/0	
den Sponge Gloves, No. 2		or Turkish (best white, extra stout quality, medium and small) 4/6 ,,	
iental Sponge Gloves	••	(very superior stout white, with red stripes) 6/8 ,,	
popatra Sponge Gloves		(fine quality, white with red stripes)	
rman Sponge Gloves		(cream or unbleached white, soft and spongy) 5/0 ,,	
ipress Sponge Gloves		(orisp white, with fancy stripes) 5/0 ,,	
march Sponge Gloves		(drab, with fancy border, very absorbent) 6/0 ,,	
den Flesh Gloves, or Calefacio No. 1		(best soft brown—friction) 6/0 ,,	
den Flesh Gloves, or Calefacio No. 2		(hard brown—friction) 6/)	
den Flesh Gloves, C quality		(soft brown—friction)	
ragon Bath Gloves		(soft brown, with red and white stripes) 6/8 ,,	
tion Bath Gloves, No. 1		(one side stout white, and the other side best soft brown) 7/3	
ion Bath Gloves, No. 2		(one side white honeycomb, and the other side hard brown) 7/0	
ighton Bath Gloves		(white honeycomb)	
man Bath Gloves		(cream or unbleached white, stont elastic honeycomb) 6/0 ,,	
toman Bath Gloves		(fancy brown and white—friction) 6/8	
iterion Bath Gloves		(fancy brown and white) 6/8	
bany Bath Gloves		(fancy white linen) 6/8	
incess Washing Gloves		(fancy pink and white honeycomb) 4/0	
incess Washing Gloves		(fancy pink and white honeycomb, large)	

ORIGINAL MANUFACTURER:

PATTISON, 139 ST. JOHN STREET ROAD, LONDON, E.C. SOLE PROPRIETOR OF THE "LUNG PROTECTOR" (REGISTERED).

BY ALL WHOLESALE SUPPLIED THEIR

ORIGINAL

BUNION PLASTERS. CORN AND

HENRY YOUNG.

1846.

AND FAVOURABLY KNOWN ALL **OVER** GLOBE, THE

PRICES-

Arnicated White Felt Corn Plasters.

hin, 1 gross in box

hin, 12 in box (round 6d. boxes) hick, 12 in box (original 1s. fancy boxes) hick, 1 gross in glass-top box ...

Arnicated White Felt Bunion Plasters.

... 2/4 per doz. boxes. Small Thin, 6 in box (round 6d. boxes) ... 2/4 per doz. boxes. Thick, 6 in box (original 1s. fancy boxes) 3/8 ,... 1/10 per gross. Large Thin, $\frac{1}{2}$ gross in box ... 4/6 per gross. Thick, $\frac{1}{2}$ gross in glass-top box ... 6/0 ,,

SUBJECT TO THE DISCOUNTS ALLOWED BY WHOLESALE HOUSES.

.B .- Please see that YOUNG'S Goods are supplied, as there are many worthless imitations.

Ianufactory, 72 Clerkenwell Road, London, E.C. (late of CARTHUSIAN STREET)

SILVER MEDAL Awarded at the INTERNATIONAL HEALTH EXHIBITION.

SPONGES.

R. CRESSWELL & CO.,

SPONGE IMPORTERS & MERCHANTS

32 Red Lion Square, London;

AND AT PIRÆUS AND SMYRNA

ESTABLISHED 1850.

PRIZE MEDALS AWARDED:



SPONGES OF EVERY KIND AND DESCRIPTION BY THE CASE, PIECE, OR WEIGHT, SANDLESS OR IN SAND, OR ON STRINGS, CARDS, AND BLUE CARD BOXES.

IMPORTANT NOTICE.

The value, quality, and style of R. C. & Co.'s Sponges being so vastly superior, in all respects, to those currently offered, it is to the interest of all Buyers that it should be clearly stated that theirs are the Sponges required, and NOT IMITATIONS. All indents should, therefore, specify that R. C. & Co.'s Sponges must be sent, in order that all loss and inconvenience may be avoided, they having received just and serious complaints from correspondents abroad, whose intentions in this respect are not always carried out.

Messrs. R. C. & Co. beg further strongly to call attention to the fact that, owing to the success attained by them in the preparation of Sponges for the market—the result of 35 years' researches and experience—dealers are offering goods purporting to be the same as R. C. & Co.'s, but which are dyed with deleterious compounds, in no way comparable to theirs, AND ARE VERY CONSIDERABLY DEARER.

FULL PRICE LIST FREE ON APPLICATION.

ALL COMMUNICATIONS TO BE ADDRESSED TO LONDON OFFICES.

SPONGES-SEASON 1885.

IN CASES, & CASES, & CASES.

A GUARANTEED NUMBER IN EACH.

NO.	DESCRIPTION.	Pieces per Case.	Price per Case.	Price per 1 Case.	Price per ½ Case.
	THO DIETECO BOTO	p. 0100	<i>x</i>	<u> </u>	ροι 1 σασο.
	HONEYCOMB.	400	£ s. d.	£ s. d.	£ s. d.
1	SELECTED QUALITY Assorted Sizes	100	18 17 6	9 9 6	4 15 0
2 3	FINE ,, ,,	100	15 8 0	7 14 6	3 18 0
4	SECOND ,, ,, ,, THIRD ,,	100	12 14 0	6 7 6	3 4 6
5	DATION EAD COADIN HOD	100	10 2 0	5 1 6	2 11 0
6	, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	100		3 19 0	2 0 0
7	SELECTED QUALITY Smaller Assorted Sizes Medium Bath Sizes	100 26	5 6 0 8 18 0	2 13 6 4 10 0	
8	COOD	26	6 3 0		*****
9	CELECTED Large	18	8 8 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
10	cood ","	18	5 12 0	2 17 0	
11	FIDOR	200	5 7 0	2 14 0	
12	GECOND	200	3 10 0	1 16 0	• • • • •
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	200	0 10 0	1 10 V	*****
	TURKEY.				
13	CUPS, FIRST QUALITY Bath Sizes	40	19 0 0	9 11 0	
14	, SECOND ,, ,, ,,	40	13 14 6	6 18 0	• • • • •
15	,, FIRST ,, Toilet ,,	100	34 5 0	17 3 6	8 12 6
16	,, GOOD ,, ,, ,,	100	25 10 0	12 16 0	6 8 6
17	s, SECOND ,, ,, ,,	100	18 10 0	9 6 0	4 13 6
18	", USEFUL PIECES ,, ,,	100	13 5 0	6 13 6	3 7 0
19	,, FIRST QUALITY Nursery Sizes	200	15 17 0	7 19 6	4 0 0
20 21	SECOND ,, ,, ,,	209	10 10 0	5 6 0	2 13 6
22	SOLID, FIRST ,, · Toilet ,,	200	23 14 0	11 18 0	5 9 6
23	,, SECOND ,, ,, ,,	200	15 16 0	7 19 0	3 15 0
24 24	,, FIRST ,, Nursery ,,	200	13 5 0	6 13 6	3 7 6
25	, SECOND ,, ,, ,,	200	7 18 7 0	3 19 6	2 0 0
	BROWN, FINE ,, Assorted ,,	150	7 18 0	3 19 6	2 0 0
96 S IV	A WE SON & THOMPSON Laws in the	200	5 18 0	3 0 0	1 11 0

S. MAW, SON & THOMPSON have just received their Spring Stock of SPONGES, which they can confidently recommend to the attention of the Trade.

1885.

S. MAW, SON & THOMPSON, LONDON.

TRADE MARKS-BULL AND BULL'S HEAD.

ABERDEEN COMB WORKS, ABERDEEN.







AWARDED THE ONLY FIRST PRIZE MEDALS at London, 1862; Vienna, 187; Paris, 1878; Sydney, 1879; Melbourne, 1880; Adelaide, 1881; Amsterdam, 188 Calcutta, 1884, for

Real and Imitation Tortoiseshell, Buffalo, Rhinoceros, and pure White Hol. DRUGGISTS' SCOOPS & SPOONS, FRUIT KNIVES, PAPER-CUTTERS,

AND ALL OTHER HORN GOODS.

THE TRADE ONLY SUPPLIED.

BRANCHES—126 Queen Victoria Street, LONDON, E.C., & 14 Carr's Lane, BIRMINGHAL

USEFUL AND NOVEL PRESENTS



ASHWORTH'S NEW PATENT " METALLIC COMB-BRUSH."

SET WITH FINE STEEL WIRES AND ENCLOSED WITH BRISTLES.

These brushes are delightfully cool to the head, producing a most agreeable gensation, and will penetrate the most luxuriant hair without injury. They care altogether machine-made; the black handles are covered with a coating of Japan burnt on and then polished. These handles are also in solid pieces, and hence will not fall apart as in the case of brush handles covered with veneer. The latter brush shows a most remarkable development in metallic brush making. It is made of fine hard drawn steel wires, about the thickness of ordinary brustles. This penetrates, SMOOTHES, and FIXES THE HAIR. It is, to express the words of sueer, "Simply perfection as a hair brush, and must, when known, take the place of the bristle brush for toliet uses." Send for a SAMPLE BY FOST AND TRY IT.

Prices of Metallic Comb-Brush, post free. Prices of Metallic Comb-Brush, post free.

Ladies' and Gentlemen's Black Japan...

Lionite-figured

Lionite-

ASHWORTH BROS. MOSS BRO K WORKS, COLLYHURST, MANCHESTER, ENGLAND.

CHEMISTS, &c., SHOULD STOCK and PUSH



The only Tooth Brush to thoroughly Cleanse the Teeth. SAMPLE BRUSHES FREE FOR 9d. or 6d. IN STAMPS.
LADIES' and GENTS', 90s. per gross; CHILDREN'S, 54s.
Each size packed, assorted cuts and textures, in 1 doz. boxes.
15 per cent. Discount—Cash with Order.
G. SALITER, Corn Exchange Passage, BIRMINGHAM.

Retail, 1/, 1/9, and 3/6; Wholesale, 9/, 15/, and so per do

This much-admired Perfume (prepared by the Widow of the loseph Okell), may be obtained from the leading Patent Media Houses, Wholesale Druggists, and Druggists' Sundry Deale

Applications for Wholesals Agencies to be made to the CONSIGNER, THOMAS WEST, Chemist, 61 Chesir Road, Stretford, Lancashire.

—Full Weight—Loose, at 7s. per gross; in lift-off boxes, 7s. 6d. and in hinged boxes, 8s. 6d., per dozen.

CHUBB'S Extra VIOLET

WARRANTED PURE STARCH POWDER), In 1d. Boxes, 6s. gross, and 2d. Boxes, 11s. gross, and in \(\frac{1}{4}\)-lb. and \(\frac{1}{2}\)-lb. Packets, 10d. per lb.

CHUBB'S Pared FULLER'S

In 1d. Boxes, 5s. gross, and 2d. Boxes, 9s. gross, an 3d. and 6d. Round Boxes, 1s. 6d. and 2s. 6d. dozen. SUBJECT TO 15 PER CENT. DISCOUNT FOR CASH.

May be obtained through all the Wholesale Houses, or direct from

CHUBB & CO., 29 OLD ST., LONDON, Ele SPECIAL QUOTATIONS FOR LARGE QUANTITIES.



G. B. KENT & SONS, LONDON.

Offices: 11 Great Marlborough St., London, W. Factories: 46 Bonner Road, London, E.

CALCUTTA EXHIBITION, 1884, GOLD MEDAL.











CONCAVE, SATINWOOD.

1873.

1876.

Silver Medal.

1st Order of Merit.

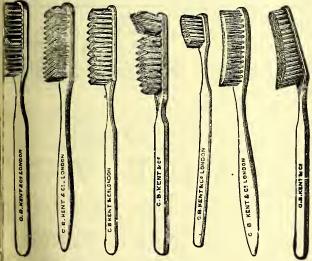


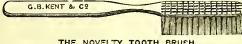




TOOTH BRUSHES.

N.B.-Special Factories at Victoria Park are set apart for this one description of Brush.





THE NOVELTY TOOTH BRUSH.
TRIPLE CEMENTED AND EXTRA SECURE Depôt for America: 91 Fulton Street, NEW YORK.

First De London Quality 5/0 Quality Third 4/0 LONDCH Quality WARRANTED EECURE 3/6 WARRANTED Quality

Fifth WARRANTED Quality

8/0 CIMDOS 6/0 8/6 11/0 per doz 3/0 3/6 4/0 7

Ohildren's ,, Footh Brush Guards ... Japanned Wet Brush Holders

Badger Hair Tooth Brushes Ohildren's

KENT'S NAIL BRUSHES.

ROACHED AND GROOVED.



HUMP NAIL BRUSH, SATINWOOD,

SPONGES.—At 11 Great Marlborough Street is a Sponge Room worth the inspection of the Trade.

G. B. Kent & Sons' Illustrated Catalogue, containing 700 woodcuts, will be forwarded free on application.

S. MAW, SON & THOMPSON

Beg to inform the Trade that they have now in stock a large assortment of

E CYPIIIAN

EOOFAHS

OF EXCEPTIONALLY GOOD QUALITY

From 7s. to 12s. per dozen, according to size.

S. MAW, SON & THOMPSON, LONDO!

FRICTION

PANSTREPTON (or All-Pliant) FLESH BRUSH

The best Article ever introduced for the purpose. PRICES FROM 22/ to 36/ per doz.

R. CONDRON, 2 BINGFIELD STREET, LONDON, N.

ROBINSON'S ORANGE WINE

(VIN. AURANTII, B.P.)

Specially prepared for Quinine Wine, coes not deposit, will keep good in any Climate, and well adapted for Export ade.
Supplied in Casks containing 9, 18, 30, 60, or 120 Gallons. Terms on application.

THE UNIVERSAL CORN AND WART PENCIL

doz. mounted on a handsome Illustrated Show-Card, Retail, 6d. each; Wholesale, 8s. 6d. per doz. It is especially lapted for Export Trade, and may be safely sent to the hottest climates, as each glass tube is hermetically sealed and enclosed in a cardboard case.

N.B.—The above is exempt from Stamp Duty by permission of the Board of Inland Revenue.

CONCENTRATED WATERS.—One Ounce of these Waters added to Forty Ounces of Dislled Water forms a clear Medicated Water (without filteriug), similar in every respect to those prepared according to the directions of the filter Pharmacoposia, and free from all Chemical impurity. They are prepared to supply a want long felt by Chemists and Medical Men, and by the tresh supply of any of the Medicinal Waters may be obtained at a moment's notice. They are not affected by age in any climate, N.B.—Usin the proportion of one part to thirty-two of water they represent the Medicinal Waters of the United States Pharmacoposia.

Per lb.

Aqua Anethi, Concent. 40

Aqua Cinnam. Ver. Concnt. 60

Aqua Foniculi, Couceut. 40

Aqua Pimeutæ, Con. 1, 40

Camphoræ , 40

Camphoræ , 40

Carni , 40

The above are put up in Bottles of 11b. or 11b. and upwards, each of which has the Iuventor's Protection Label or cort.

Wholesale Agents—Hearon & Co., Maw, Sou, & Thompson, Lynoh & Co., Loudou; Evans, Son & Co., Liverpool; Woolley, Mauchester; Bewley & Draper, Hunt & Co., Dublin; Glasgow Apothecaries Co., Hatris Co., J. Richardson & Co., Leicester; Slinger & Son, York; McKesson & Robbins, New York. Special terms for large quantities may be had from B. ROBINSON, Distiller and Brewer of British Wines, Church St., Pendleton, Manch 161.

COATE & CO.,

THE LONDON BRUSH WORKS, AXMINSTER, ENGLAND,

N publishing their present Price Current, tender their best thanks for the

favours received for a period of thirty-seven years,

During which time, by the patterns registered and processes patented, unely, the White Enamelled Cement, the Machinery applied, the New achines invented, &c., they believe they have taken the lead in improving e Manufacture of Tooth Brushes more than all the other Tooth Brush akers in the world put together, whose main efforts seem to have been that trying to imitate the style and patterns of Coate & Co., but with very inperfect success as yet.

For, as a true test of the superiority of their manufacture, Coate & Co. in say that at the present moment their customers are now supplying most the crowned heads, princes, and nobles of Europe with Tooth Brushes made

COATE & CO.

Such being our present position in this branch of manufacture, we beg to sure our friends and customers that no efforts will be spared to hold our sition and merit their continued support and approval.

We trust and think that the life-size Illustrations now issued will greatly sist our customers at the retail counter, and facilitate orders per letter at

me and abroad.

The drawings of each pattern signify actual size and shape, not hardness, cept the patterns G H (Goat Hair), V S (Very Soft), V H (Very Hard), for Yellow or Unbleached Hair, and B H (Badger Hair). All the other tterns are made and sent out in Soft, Medium, and Hard, assorted, unless

dered to the contrary.

If best Tooth Brushes are ordered by the gross assorted, with a remark as hardness, preferable or objectionable patterns, a better and more saleable wiety can be had than if ordered by one or two dozen per No. Observe, no bonge Brushes, Palate Brushes, Very Soft or Very Hard, would be sent unless ecially ordered to be sent in such gross, and customers who order Assorted atterns can rely on having a nice assortment sent at once; but, when ordered pattern, more time may be required, for although Coate & Co. held in ock on January 1, 1885, nearly three thousand gross of Tooth, Hair, and ail Brushes, made and partly made, yet the variety of Patterns, Qualities, and lardness is so great that they cannot at all times keep up a large quantity of uch Sort, Pattern, or Hardness.

THE FOLLOWING ARE A FEW OF THE PRICES OF OUR MERCHANTABLE TOOTH BRUSHES:-

1112	IULLUWING	AKE	A	r E VV	UF	IHE	PRICE	-3	OF OUR MERCHANIABLE TOUTH BRUSHES :-	
							Per do	0Z. 1	Per	r dez
mmon mented	Cemented						2/	- 1	Cemented, Superfine, stamped with Elephant	5/
тептед	London	• • •		• • •		••	2.	, 1	To different body boampoor want 2000 at 222	5,8
"	Improved			•			3.0		Warranted Best Hair, stamped with Trade Mark	6/
23	Warranted						4	-	Extr Best, stamped with Trade Mark and "Coate	
23	Warranted :	Extra					4/	8	& Co.," London	6/6

Late of 41 LISLE STREET, LONDON.

ILLUSTRATED PRICE LIST SENT FREE ON APPLICATION WITH BUSINESS CARD.

3.- A Large Stock of Finished TOOTH BRUSHES, HAIR BRUSHES, &c., kept ready for Merchants' Shipping Orders.

MANUFACTUFD 1796.

SPECIAL NOTICE

TO SHIPPERS, WHOLESALE DEALERS, AND THE TRAD.

SPECIALITIES WORTH ATTENTION.

BROWN WINDSOR

USED IN

HER MAJESTY'S

PALACES

PALACES

W. C. BENTLEY

FIRST

SOLD IN BOXES CONTAINING SIX SMALL TABLETS OR THREE LARGE, 1/6 each; 12s. per Dozen Boxes.

DUCHESS MARIE BOUQUET

ADELINA PATTI'S FAVORITE PERFUME.

2s. 6d., 3s. 6d., 5s. and 10s. 6d. per Bottle; 20s., 28s., 40s., 80s. per Dozen.

London London Rand S. 2.

Jo Chuston Band Belgiam Rand S. 2.

Joseph Brothers July 4 1882.

Jeap Brothers June 1 melicut.

Jeap Brothers formed In Steephied asledy by my to the the the land for the use of for the use of for the year of the my selected for the view of far hispated asledy by my to the selected for the seal of for hispated and the largest and the largest primary (combined with the largest primary) (combined with its tradicable the sport about and the superior and forest are of New Magnety and her Court.

John Beddard

Monthly of Rumanitating the many the superior who was the superior who was the superior with the superior who was the superior with the superior who was the superior with the superior who was the superior w

Begint Logan Konden Fatherm So Jane 15th 1886 franching to the sample bottle of Duckerse Marie I shall feel much obliged of you will send me a case of a degree bottle, as I like at vary much fully; Mesor hasp bot. Jones fast fully; Mesor hasp that, and and party the light the land of the light fully;

PRICE LIST ON APPLICATION.

SHARP BROS., 12 SOUTHAMPTON ROW, LONDON, W.C.





THE CROWN PERFUMERY CO.,

TRADE 177 New Bond St., London,

Beg to draw the attention of Chemists, Druggists, and Perfumery Dealers to

Beg to draw the attention of Chemists, Druggists, and Perfumery Dealers to their Fine Perfumes and Fancy Soaps, for the excellent quality of which

SEVEN PRIZE MEDALS HAVE BEEN AWARDED.

Concentrated Essences of Great Fragrance and Strength:—

Tanglewood, Crown Bouquet, Mathiola, Stephanotis, White Rose, Jockey Club, Ess Bouquet, Wood Violet, Frangipani,
Opoponax,
Ylang Ylang,
Isle of Wight Bouquet.

16/, 20/, 28/, 48/, and 84/ per doz.

SUPPLIED IN BOND FOR EXPORT AT GREATLY REDUCED PRICES.

THE CROWN SOAPS are prepared with great care from the purest materials, delicately perfumed, and very lasting.

BROWN WINDSOR, HONEY, ALMOND AND GLYCERINE, ROSE, &c.—In Card Boxes of 3 tablets each, 8/ and 12/ per dozen boxes; also in Wood Boxes of 7 or 14 lbs., 64/, 71/, 84/, and 120/ per cwt.

PURE COAL TAR SOAP.—Each tablet enveloped in tin-foil. 27s. per gross. The well-known disinfecting properties of this Soap have caused it to be in universal demand. Its regular use, especially in warm climates, quickly allays all irritation of the Skin, whilst its agreeable odour induces a feeling of freshness and comfort not attainable by any other means.

OPALINE SOAP, FOR THE SKIN AND COMPLEXION.—Absolutely pure, delicately scented, and very emollient. 4/ per dozen tablets.

OPALINE TOOTH PASTE, the New Fragrant Dentifrice, 8/ per doz.

OPALINE FACE POWDER, 3/6 and 7/ per dozen packets; 15/ per dozen boxes.

Indents may be forwarded through any English Commission Merchant or Drug House.

ALL COMMUNICATIONS SHOULD BE ADDRESSED TO THE MANUFACTORY,

NEW FAIRFIELD WORKS. OLD BAILEY. E.C.

RIMMEL'S NEW SANITARY PERFUMERY.

SILVER MEDAL, National Health Society, 1883.

RIMMEL'S AROMATIC OZ NIZER, OR NATURAL AIR PURIFIER

A fragrant powder which, simply spread on a plate in apartments or places of public resort, evolves the refreshing and healthy emanations of the Fine and Englyptus, and produces a quantity of OZONE, the great air purifer. It is particularly suitable for the RedJohn end Nusery, and is also in use in the principal Hotels, Gubas, and Theatres, and in the Saloons and Cabins of several Lines
of Steamships. The only eleasant and non-irritant Dismrectant.

In 40.2. Tins, 18.; by post for 15 stamps; 1-lb. tins, 3s. 6d.: Spreading Plate, 6d.

RIMMEL'S OZONIZED EAU DE COLOGNE, LAVENDER WATER, OR FLORIDA WATER, sprink'ed on a pad hung up in the air, destroys bad smells and noxious effluvia in sick rooms, closets, &c. It is recommended also to be used on the handkerchief when attending crowded places, visiting the sick, or travelling by land or sea.

Price 2s. 6d. and 5s. per bottle; Pad. 1s.

RIMMEL'S AROMATIC OZONIZED CASSOLETTE,

To carry in the pocket, and preserve from infec ion. Price 6d; by post for 7 stamps.

The usual allowance to the Trade. 500 Bills with Name and Address presented to every purchaser of the above articles to the amount of £2.

SILVER MEDAL, International Health Exhibition, 1884. EUGENE

RIMMEL, Perfumer to H.R.H. the Princess of Wales, 96 STRAND, LONDON, W.C.

ORPE'S COMPOUND PERFUME.

½-lb. Bottles, 6/6 each; 1-lb. ditto, 12/6 each.

This compound will be found superior to Bergamot or Lemon for scenting Pomades, Cosmetics, or Oils. († oz. to 21b. Ol. Olivæ.)

A. F. FOSSE (T. M. ORPE), 329 Old Kent Rd., London, S. E. Importer of French Pomades and Essences. Obtained through Messrs. Maw, Son & Thompson, and all Wholesale Honses.

HIGGINSON'S ENEMAS,

BEST QUALITY, Green, with Elastic Vagina Pipe and Shield, and Bone Rectum Pipe, in Slide Cedar Boxes.

Sample Post Free, with Rednord Price List, to Chemists only, on receipt of Postal Order for 2.6d.; no stamps.

JOHN CENTRETON, 24 NILE STREET, CITY ROAD, LONDON, N.

SKIN SOAP,

A PURE AND UNSCENTED SOAP, RECOMMENDED BY EMINENT MEDICAL MEN.

In the original Shilling Packets, 8/- per doz.
5 per cent. discount for Cash. 10 per cent. on a gross.

BRECKNELL, TURNER & SONS,

31 HAYMARKET, LONDON.

HANDBILLS AND SHOWCARDS ON APPLICATION

ESTABLISHED 1810.

H. BROOKS, PEEL & CO., COLLAPSIBLE TUBE MANUFACTUREIS

PORTABLE METAL SPRINKLER STOPPER,

BOTTLES FOR PERFUMERS GLASS AND

STEAM FACTORIES:

31 Lime St., Camden Rd. (Offices), and Bartholomew Rd., Kentish Town, London, N.I.

COLLAPSIBLE TUBES ALL SIZIS



For Perfumos, Artists' Colours, Soars, Cosmetiques, Creams, Oils, Varnishes, &c. These Tubes are inexpensive and portable, and may be a lied to many useful purposes besides those above mentioned.

MANUFACTURERS AND

RTABLE



With Cork fitted thereon for bottles of any size, and having apertures of various dimensions, especially adapted for Perfumes, Hair Washes, Lime and Glycerine Essences, &c. These handsome stoppers give a character and finish to the most ordinary bottles to which they may be applied. Gilt or plain; and put up if required in handsome glass lid boxes, ; suitable for shop counters and show cases, at moderate prices.





The two designs, Nos. 18A and 19A, are those to which we direct special attention, as sizes being in general use; other sizes will follow promptly to meet all requirements, on which Caps with two or more holes will be introduced to meet the public taste. Particular attention is called to the latest improvement in our Patent Metallic

Stopper, the "Torsion."

This New Stopper adheres to the design of the original patent, which has been universally acknowledged as an ornamental and inexpensive article for the Toilette, as possessing all the advantages of a "Permanent and Indestructible Stopper, suitable

No. 198 as pessessing all the advantages of a "Fermanent and Indestruction Stopper, suitable 100 for Bottles of all Sizes and Shapes," with the additional security it affords, that the Cap can never be entirely unsawed, consequently it cannot be lost. It is specially effective as a Sprinkler, while giving a more prompt and copious, yet ecomic, supply, through the improved action of the Cap. Such combined advantages, in an article of exquisite finish, have longeen desired, and it is thus submitted for general approval, and its usefulness when tried will be appreciated by all.

Illustrations, Price Lists, &c., can be had on application, or through any Wholesale House in town or country. All Orders received direct will be promptly attended to.

CAUTION.—All Stoppers of our Manufacture are made of Pure Tin, and have the name of H. BROOKS &CO. stamped on the under side of the rim.

All Tubes are made of Pure Tin unless specially ordered of Mixed Metal, from the smallest size up to 13 in. 12%.



Notice to the Trade.

GENUINE EAU DE GOLOGNE

MANUFACTURED BY

JOHANN MARIA FARINA,

JULICH'S PLATZ No. 4,

A DESCENDANT FROM THE

Original Manufacturer of this Valuable Perfume,

IS KNOWN THROUGHOUT THE WORLD AS

No. 4.

AND SOLD BY ALL THE LEADING WHOLESALE HOUSES.

In 2 oz. Bottles.

In 4 oz. Bottles.

In 6 oz. Bottles.

In 8 oz. Bottles.

In reputed 2-Pint, Wickered.

In reputed Pint, Wickered.

In reputed Quart, Wickered.

In 4 oz. Bottles, Wickered.

JOHANN MARIA FARINA,

JULICH'S PLATZ No. 4,

COLOGNE-ON-THE-RHINE.

By Special Appointment to the Prince of Wales and to several Imperial and Royal Courts

Possessor of PRIZE MEDALS and DIPLOMAS of the Exhibitions at LONDON, 1851; NEW YORK, 1853; LONDON, 1862; OPORTO, 1865; CORDOVA (Argentine Republic), 1871; and at VIENNA, 1873; SANTIAGO (Chili), 1875; PHILADELPHIA, 1876; CAPE TOWN (South Africa), 1877 (Gold Medal); SYDNEY, 1879; and MELBOURNE, 1880.

Sole WHOLESALE Agents for the United Kingdom and Colonies,

FICKUS, COURTENAY & CO.

ST. DUNSTAN'S BUILDINGS, GREAT TOWER STREET, LONDON.

W. KEMP & SON, HORNCASTLE.

PURE CRUSHED LINSEED,

CONTAINING ALL THE OIL. A strictly pure article, all other sceds, dirt, &c., being entirely removed. It is lightly crushed from a special kind of large bold seed, which gives a larger proportion of meal to husk than the ordinary commercial Linseeds. Price 18/6 per cwt., bag free. Special quotations for 5 cwts. and upwards.

Note.—This quality can be obtained from Messrs. Barclay & Sons, 95 Farringdon St., London, in 1-cat. bags at above price; smaller lots 20/ cvt.

CRUSHED LINSEED No. 2,

Contains all the Oil, and is crushed from sound good Linseed, 17/6 per cwt., bags free.

CRUSHED LINSEED No. 3,

Contains all the Oil, and is crushed from sound good Linseed, 16/6 per cwt., bags free.

CRUSHED SICILIAN LINSEED,

The best for feeding purposes; merely require scalding to make a stiff jelly, and when introduced at once creates a large demand; bags free.

PURE LINSEED MEAL,

WITHOUT OIL. Best quality only, 11/6 cwt., bags free.

All ground in our own mills, and always sent out freshly crushed. Special Quotations for Quantity.

Ahove can be bad with the Husk wbolly or partially sifted out at an advanced price. Correspondence on this subject is invited.

Applications for Samples solicited.

W. KEMP & SON, Seed Crushers, HORNCASTLE.

CHURCHILL'S

CORROSIVE COMPOSITION,

A vegetable Compound which far supersedes anything yet introduced for removing Old Paint, Varnished Paper, Grease from plain or moulded surfaces, Cleaning Stained or Smoked Marble Chimney Pieces, &c. It is coener, a great saving in workmen's time, and gives more satisfaction than any other process.

CHURCHILL'S AMMONIA SOAP.

CHURCHILL'S

POWERFUL DISINFECTANT.

Instantaneous and Perfectly Inodorous.

254 LOWER BROUGHTON ROAD, MANCHESTER.

LISTS AND PRICES ON APPLICATION.

PRICE'S PATENT (ANDLE COMPANY - LIMITED =



MARKING INK.

Intensely
Black, Permanent, an
Requires no Heating.
IN BULK FOR CHEM'STS' OWN PUTTING

In 4 cz., 8 cz., and 12 cz. Bottle at 4/2, 7/6, and 10/6 respective. Sent free to any part of the Unil Kingdom on receipt of remittan made payable to

J. Bunker, Chemist, Hackney.

EXTERMINATION

OF ALL

THE HIGHEST AWARDS GREAT EXHIBITIONS.

CORNS & BUNION

Guaranteed by using Gardner's patented Corn and Bunion Extermins: Painless in operation, "never fails," is not a drug, but an ingenious la instrument which can be used by anyone. Protected in England a Ahroad, Price 1/- each of all Chemists, Ironmongers, etc. The high Surgical Testime risks can be seen and operations successfully perford at the Patentees, who will also send the Exterminator direct for 13 standards.

C. & J. P. GARDNER, Chiropodists, Kendal.



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ANCIENT DISTILLER. THE MOST

JOHANN MARIA FARINA.

Opposite the Julichs Place, COLOGNE.

ESTABLISHED A.D. 1709.

PRIZE MEDALS:-LONDON, 1851 and 1862; OPORTO, 1865; PARIS, 1867; VIENNA, 1873.

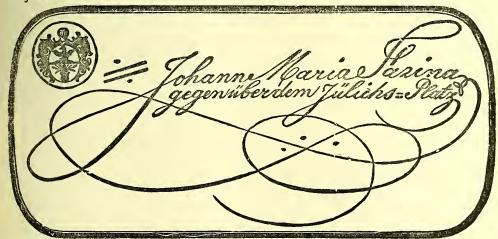
ty appointment, Sole Purveyor to Her Most Gracious Lajesty Victoria, Queen of Great Britain & Ireland; Lajesty Victoria, Queen of Great Britain & Ireland;
heir Royal Highnesses the Prince and Princess of Wales; William, King of Prussia;



Albert II., King of Saxony; Alexander II., Emperor of Russia; Francis Joseph, Emperor of Austria; Lewis, King of Portugal; H.R.H. Frederick William, Crown Prince of Prussia.

In consequence of increasing inquiries from the Colonies for my Eau de Cologne, the only genuine, I eg to submit my Price Current.

At the same time I beg to call special attention to the following facsimile of my Trade Mark, for the rotection of which I have instituted thirteen suits in the High Court of Chancery, all of which have been lecided in my favour.



All similar Labels being more or less imitations of the same, I shall proceed as before against all persons selling or exposing for sale any such imitations.

I only prepare one quality of Eau de Cologne. This quality never varies in the slightest degree, and there has not been the smallest change in the manufacture since the year 1709, when it was invented by my ancestor.

Orders equal to at least 12 dozen short bottles will be promptly executed at 12s. 6d. per dozen, against my bill drawn at three months from the date of invoice, delivered free on board the export ship, at Rotterdam, Antwerp, Hamburg, or Bremen, no charge being made for the case and packing, but insurance charged extra. 71 per cent. discount is allowed for orders equal to at least 100 dozen, but on no smaller quantities.

I may add that, as I do not draw on the Colonies, all Orders must be accompanied by a credit on some

London House, or permission to draw on same at three months.

The Goods can also be shipped in transit through London at a very small additional expense, full particulars of which may be obtained of my Sole Agents for Great Britain and Ireland:-

MESSRS. J. & R. McCRACKEN,

No. 38 Queen Street, Cannon Street, London, E.C.

The following are the sizes of my bottles:-

No. 1. Long Green Flasks

2. Short White Bottles

3. Double ditto

4. Wickered Bottles (small)

ditto (medium)

ditto (large)

FARINA,

COLOGNE: January, 1885.

OPPOSITE THE JÜLICHS PLACE.

to one dozen.

ASKHAMBR. S. & WILSON

LIMITED,

SEREFERD.



THE MOST ECONOMICAL MILL IN THE MARKET.

For Pulverising and Reducing to Impalpable Powder or to any degree of Fineness, all materials capable of being

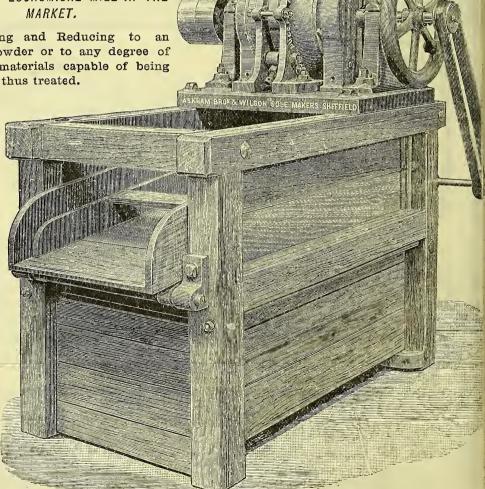
Simple, Efficient, Durable,

combined with Small Cost.

Readily put together and kept in order. Requiring very

Write for full particulars.

little power.



Specially suitable for Pulverising Bone Ash, Plaster, Dry Soar Fuller's Earth, Glass, and any kind of Chemical Crystals, &c.

DVED AND LATEST MACHIN

PARIS, 1878.



DRUG GRINDERS,

CHEMISTS & DRUGGISTS,



NT AND COLOUR MANUFACTURERS AND OTHERS.

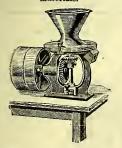
HAND EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



NEW DRUG MILL.

For Ginger, Roots, and all kinds of friable



NEW HORIZONTAL MIXER,

For Amalgamating Compounds, &c. (made with or without casing).



HAND MIXING AND CRUSHING PAN MILL.

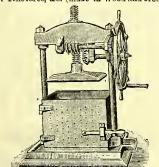
For Ointments,



Powders.

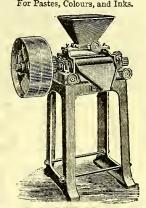
COMPOUND PRESS.

For Tinctures, &c. (made in Wood and Iron).



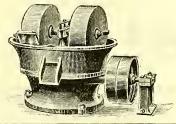
NEW GRINDING MILL,

For Pastes, Colours, and Inks.



POWER EDGE RUNNER MILL.

With Iron or Granite Rollers and Bed.



HORIZONTAL MILL

For Dry Powders.



IMPROVED PAINT MILL.

For Mixing and Grinding Colours in Water or



MACHINES FOR SPECIAL PURPOSES, EVAPORATING PANS, &c., MADE TO ORDER. Prices and particulars on application to

FOLLOWS & BATE, LIMITED, Engineers, DUTTON STREET WORKS, MANCHESTER.

Yelf, I

ML au

SMISI.

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TO ALL

NOT

CRAWSHAW'S SPECIALITIES.

6d. DYES(14 to the Doz.) In ½ gross Counter Cases48/- Gross.	3d. PERFECT BLACK DYEIn 4 Gross Wood 21/- Cas
td. DYES(14 to the Doz.)in 1 Dozen Boxes48/- Gross.	
3d. DYESOn 1 Gross Cards	1s. SILVER PLATING SOLUTIONon
3d. DYES. In \(\frac{1}{2}\) Gross Boxes	6d. TINS CRAWSHAW'S INSECT POWDERln 3 Dozen Wood Boxes 48/- 638
3d. DYES On ½ Gross Cards	24 DOVER ODATIONATION TATOROW
2d. DYES In ½ Gross Boxes	POWDERIn ½ Gross Wood Boxes
1d. DYESln 3 Gross Counter Case, with glass lid7/- Gross.	la. BOXES CRAWSHAW'S INSECT POWDERln 1 Gross Wood Boxes 7/- G/8
1d. DYESOn ½ Gross Cards	1d. BOXES CRAWSHAW'S INSECT) 7/ C
1d. DYESIn } Gross Boxes	POWDERMounted on Cards of 4 Gross 7/- G ₁₈
6d. PERFECT BLACK DYE in 1 Gross Wood 8/- Gross.	3d. BOXES CRAWSHAW'S BEETLE POWDERln ½ Gro-s Wood Boxes

E. CRAWSHAW & CO.,

80 FANN STREET, ALDERSGATE STREET, LONDON, E.(

AZZIE GREASE

IN 1½ LBS. WOODEN BOXES. Send for Sample Box and Price, free on application.

JOHN ROGERS, 79 VICTORIA STREET, BELFAS

HOUSEHOLD WANTS SUPPLIED.

CUBLEY & PRESTON'S MARGLE BENOVATOR, For Cleaning all kinds of White Marble Goods; in bottles, 8d., 1s. 2d., and 2s.

CUBLEY & PRESTON'S ANTI-RUST,

For Preserving all kinds of Polished Steel, Iron, and Gun Metal from RUST; in 1s. tins.

WHOLESALE FROM THE MANUFACTORY_
4 HIGH ST., SHEFFIELD.

FOR CLEANING PLATE

BRADLEY & BOURDAS'S ALBATUM or WHITE ROUG,

For Cleaning Gold, Silver, and Plated Goods.

Since its introduction as a substitute for the ordinary Ronge, a quar of a century ago, the sale has amazingly increased both at home d abroad. A trial is only needed to prove its superiority over other repowders in use. Sold in Boxes at 1s. and 2s.; Tins, 6s. 6 Pont Stre, Belgrave Square, and 48 Belgrave Road, London, S.W.

ESTABLISHED 1824.



NEEDHAM'S

Gold Medal, Adelaide, 1881. Order of Merit, Melbourne, 1886 Diploma of Merit, Vienna, 1873.

Established over Half a Century.

For Cleaning and Polishing Brass, Copper, Tin, Britannia Metal, &c., &c.

POLISHING



Pickering's Furniture Polish, Plate Powder. Knife Powder, Brunswick Black, Razor Paste, Harness Blacking, British Polishing Pomade (red) for Meta's, &c.

PASTE.

Wholesale by London, Sheffield, Birmingham, and Wolverhampton Merchants, and Retail by Chemists, Ironmongers, and Grocers.

JOSEPH PICKERING & SONS, SHEFFIELD.

PAINTS. VARNISHES. WOOD STAINS.



THOMAS S. JACKSON & SONS.



WOOD

SPECIAL." MAHOGANY, OAK, V SATINWOOD, WALNUT ROSEWOOD, EBONY.

Draught, or packed in 6d. bottles (8 oz.), capsuled and wrappered. Also in powders

BOARDS. SHOW

With specimens of the Stained Woods, supplied.

The demand for these Stains is steadily increasing. They possess great richness and truth of colour, and

ARE OFFERED AT A REASON-ABLE PRICE.

VIENNA.

EADY-MIXED PAINTS. In 1, 2, 4, 7 and 14 lb. Tins.

hese goods are packed in the "Patent alf-opening Tins," which require no cutng. Tins painted to correspond with contents, and enclosed in printed wrappers.

8 USEFUL and SALEABLE TINTS. Guaranteed to Dry Well.

HANDSOME SHOW BOARDS

Framed and Glazed), with Specimens of the Colours, supplied.

ICES AND SAMPLE CARD ON APPLICATION.

VARNISHES

(Every description).

JAPANS.

BRUNSWICK AND BERLIN BLACKS. TEREBINE.

FRENCH POLISH.

WHITE AND BROWN HARD SPIRIT VARNISHES.

KNOTTING.

LACQUERS.

DRYERS and GROUND COLOURS

quality. DRY COLOURS, all Prices and Shades.

of the finest

IMPORTERS OF OCHRE. ULTRAMARINE, &c.

NOTICE.—All communications should be addressed to the Office—

AYTON'S BUILDINGS, 199 HIGH STREET, SOUTHWARK, LONDON, S.E.

There is no connection with any firm of a similar name.

ESTABLISHED

CHLDRENS 188-SHOE

1853

Highest Award, Philadelphia, 1876. Gold Medal, Berlin, 1877. Highest Award and only Medal, Paris Exhibition, 1878. Highest Award, Melbourne, 1881. Highest Award and only Medal, Frankfort, 1881. Highest Award and only Medal, Amsterdam, 1883.

Put on by Sponge attached to Wire and Cork in each Bottle. No Polishing Brush required. Dries in a

few minutes. Can be used by any lady without soiling her fingers.

The "Satin Polish" is the most Elegant Article of the kind ever produced.

Ladies' Shoes, which have become Red and Rough by wearing, are restored to their Original Colour and LUSTRE, and will not soil the skirts when wet. TARNISHED PATENT LEATHER is improved by it.

For Travelling Bags, Trunks, Harness, Carriage Tops, &c., it is unequalled. It will not harden the Leather nor crack. It is not a spirit varnish. In Cartons, 4s. 6d. per dozen; 52s. per gross. Packed in Sawdust, 3s. 9d. per doz.; 43s. per gross. 2½%.

BRONZE **AMERICAN** MAGIC

Is the best in the Market, and it can be used with good effect on Ornaments, Picture Frames, Iron and Fancy Work generally, as well as for Boots and Shoes. In Cartons, 7s. per dozen. 21 %. SOLD BY ALL WHOLESALE CHEMISTS AND DRUGGISTS' SUNDRIESMEN.

Factories: BOSTON: MONTREAL; 18 & 20 Norman's Buildings, ST. LUKE'S, LONDON.

WENS' CLARIFIED LARD, MARROW, SUETS, AND OILS.

JAMES EWEN & Sons are induced to give further publicity to dese articles, the continued demand by all who have used them bing satisfactory proof "that where purity of basis" in atments, &c., is required, they are most desirable.

By their method of purifying, the fats are not chemically tered, but simply divested of all particles tending to demposition, they are consequently available for the most

licate preparations.

Adeps. Benz. B. P. and Pharm. Lard (vide P. J. Vol. I. 0.8). Direct, "for Cash only," from

JAMES EWEN & SONS' CLARIFIED FAT WORKS, 5 HATFIELD STREET, STAMFORD STREET, S.E.;

through any of the Wholesale Houses, with their usual credit, at a small advance.

Caurion.—See that each package bears their label with name d weight.

A thoroughly good article for Cleansing Fabrics.

Paint, Pitch, Grease Spots, &c., Easily and Instantly Removed.

BENZINE !! NO MORE

QUILLAIA is Snow-white, and is delightfully fragrant.

Metallic Boxes ONE SHILLING at Retail.

WHOLESALE OF LEADING LONDON HOUSES.

TOTALL.

IMPORTANT REDUCTION in the WHOLESALE PRICE of LAMPS, FROM OCTOBER 1, 1884.

SAMUEL

AMP FOOD WARME PYRAMID NURSER

1st Award, First Grand Silver Medal to Samuel Clarke, London, for his Patent Pyramid Clarke, London, for his Patent Pyramid Night Lamp Food Warmer.

Clarke, London, for his Patent Pyramid Night Lights.

PRIZE MEDAL AWARDED, LONDON, 1873.
PRIZE MEDAL AWARDED, PARIS EXPOSITION, 1867.

AWARDED AT THE HEALTH EXHIBITION, SOUTH KENSINGTON, 1884 SILVER MEDAL



PATENT PYRAMID NIGHT LAMPS. THE BURGLAR'S HORROR!!

RETAIL PRICE, 1/- EACH.



NOTICE TO THE TRADE.

Dealers having any PYRAMID Food Warmers, or PYRAMID Night Lights, in an unsaleable condition from exposure in the Shop, can have them exchanged for NEW ONES, without any CHARGE, by sending them Carriage Paid to the Patentee, S. CLARKE, Pyramid Night Light Works, Child's Hill, London, N.W.

Show Cards and Counter Bills will be forwarded CARRIAGE PAID on application by letter or post card.

No. 2 Holds Three-quarters of a Pint Food, hesides Water , 5s. 0d. , 36s. , 30s. , No. 3 Holds One Pint Food, hesides Water , 6s. 0d. , 42s. , 33s. , Clarke's Hot-water Lamps	doz.
Lids No. 1, 23. No. 2, 58., No. 3, 48. , Clear Glasses, 48 Rongnet, 68 Opaine, 68.	,

PATENT PYRAMID NIGHT LIGHT WORKS, CHILD'S HILL, LONDON, N.W.

AMERICAN DEPOT: 25 & 27 EXCHANGE ALLEY, NEWARK, NEW JERSEY, U.S.A.

PATENT PYRAMIO NIGHT LIGHT WORKS, CHILD'S HILL, LONDON, N.W., July, 1884.

DEAR SIES,—Permit me to call your special notice to the above, showing the great reduction in the wholesale prices of Pyramid Nursery Lamp

Food Warmers and Pyramid Night Lamps, from the 1st October, and to the very large profit they bear to the retail dealer.

I wish also to call your attention to the note above, showing the exceptional advantages in selling my goods.

Orders for Lamps of not less than a dozen will be sent in a free case, carriage paid, to any part of the Kingdom.

Soliciting your early order, to be executed at the reduced prices,

I am, dear sir, yours obsediently,

SAMUEL CLARKE.

DHAM

JPWARDS OF ONE HUNDRED

Glne	35/	 38/	 42/	 441	per cwt.
h ditto	38/	 42/	 45/	 48/	19
try Bught	30/	 32/	 34/	 36/	11

TOXS ALWAYS IN STOCK.

F-1 /-9*	RASI	IDED
1 F Y 1	$HV \wedge I$	IN H
LAI	INU	/ 1

Country Thin Pale.	. 56	 60	 65/		70/	per cwt.
Gelatine, Thick						22
Ton	50/	 60/	 70/	to	220/	.,

Super Quality 8/

Black

least Sees

The most reliable and uniform Medal Glue is our "CROSSED SWORDS" BRAND, 42/.

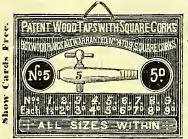


ERMAN METAL CLEANING AND POLISHING POMADE

EANINGER

S.rew. Lignum Vi'æ plated shank i per dozen.

TTLE OPENER & CORKSCREW. WOOD TAPS WITH SQUARE CORKS. Extra Super Quality.



TOILET STOVES.

New Cheap Toilet Stove 4/3 per dezen.

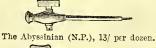
CURLING TONGS. Special, Fancy Word Hardle 4'6 per dozen. White Polished Handles 3/

ROUND CORKS. Nos. 1, $4\frac{1}{2}$ in., /10; 2, 5 in., 1/; 3, $5\frac{1}{2}$ in., 1/2 per doz.

Nos. 4, 6 in., 1/4; 5, 64 in., 1/7; 6, 7 in., 1/9; 7, 7½ ia., 2/; 8, 8 in., 2/6; 9, 8½ in., 3/3 per dox.

If Perforated, 3d. per dozen extra.

CHAMPAGNE OR SODA TAPS.



The Approval (N.P.), 16/ per dozen.

SUPERIOR TURKEY HONEYCOMB SPONGES

3d. 4d. 6d. 9d. 1'2 1/9 2,4 3'6 5/3 7 per dozen.

Measurement, 3 feet by 10½ inches

2.—To take English Sush 3.—To take Foreign Eash 4.—To take Foreign Sash

per degen. 6 Paj cr (1,030 Sheets),

oľ

Rolls

"ARCANUM" BEETLE TRAP THE Full directions with oach. Per Gross, 16/

NEW TOILET FIXTURE.



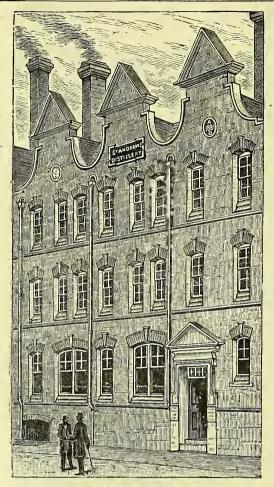
BRUNSWICK BLACK.



New Shape (with Brush) 6d. 39 per dozen. 7,6 6d. 33 66

Every description of Brushes in Stock.

Chamois Leathers, Twines and Strings, Matches, New Warehouse Truck, and several Novelties in List, just ready, free by post on receipt of Trade Card. I. PANCRAS EMERY & GLASS PAPER WORKS, YORK ROAD, KING'S CROSS, LONDON, N



Guaranteed pure, thoroughly rectified, and made from English Grain Spirits.

60 op., 20s. 9d. per Gal.

56 op., 20s. 3d.

TINCTURE SPIRIT

Useful for all purposes where absolute purity is not necessary.

60 op., 20s. 6d. per Gal. 56 op., 20s.

1s. per gallon discount for Cash with order. Further allowance for quantity.

STEAM STILLS ONLY.

DISTILLERS.

LONDON, Clerkenwell Road,

DYES

BEST SPIRIT BLACK IN THE MARKET.

Mahogany Stain Ebony Stain Oak Stain Walnut-

Stain

Stiget & Great Tower COLORS. INDIGO PASTE.

CUDBEAR. DYEWOOD EXTRACTS. Bronze Powders & Metal Leaf.

Electric Polish! Electric Polish

For cleaning Silver, Copper, Brass, Steel, & all bright metals, diminished labour, less trouble and expense, use

which will make old and tarnished articles bright as new. is a liquid preparation, and entirely different to anything yet introduced. It contains no acid, mercury, or injurious chemicals, easily applied, and at once produces a bright, mirror-like surface, and lasting. Tradesmen and others who require a polish for their Scales, Weights, Brass Stalls, &c., it is invaluable. For domestic use, Silver, Electro Plate, Steel, Door Handles, &c., it will prove a great boon. When once tried, it will never give place to any other. An outlay of 6d. for a bottle will never be regretted. Price 6d. and 1s. per bottle, of all Chemists.

D. J. LEWIS, Chemist, &c., High St., Acton, W.

Wholesale London Agents-SANGER & SONS; G. B. KENT & SONS; S. MAW, SON & THOMPSON; and SOUTHALLS, Birmingham.
The Proprietor can with every confidence recommend this to the Trade.

3 Prince of Wales Crescent, Kentish Town,
London, N.W., January 16, 1884.

Sir.—I have much pleasure in informing you that the bottle of "Electric Polish" I bought of you does even more than you promised it should do. I gave it a fair trial with gold, silver, and brass, and found it to give a far mere lustrous and lasting polish than any paste or powder I ever tried, and when once a bright surface is obtained it is some considerable time before it becomes dull again. It needs only to be known to be appreciated. You are at liberty to make what use you like of this letter, and I trust the sale of your Polish will continue to increase, as such a very useful and conomical preparation deserves to.

I am, Sir, yours truly,
M. HERSANT.

aport

Mrs. Conrad Howell has much pleasure in testifying to the excellence of the Electric Polish prepared by Mr. Lewis. It seems to suit all metals equally; it has completely restored some tarnished silver which Mrs. H. was about to send to a Silversmith to be cleaned. No one who tries it can doubt the result.

SPIRITS of

For Tinctures, Essences, Perfumes, &c.

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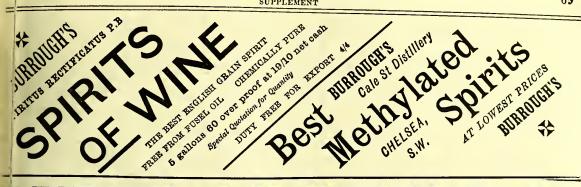
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Beg to call the attention of Chemists and Druggists to their undermentioned prices of Pure Spirits of Wine:—

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A SUPERIOR PREPARATION
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Glass Paper, Emery and Glass Cloth; Emery, Black Lead, Emery Wheels, Pumice, Putty Powder, Crocus, Urn Powder, Tripoli, Rouge, Plate Powder, Steel Polish, Furniture Polish, Knife Boards, Brunswick and Berlin Black, &c.

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CALCUTTA INTERNATIONAL EXHIBITION.

A GOLD MEDAL

as been Awarded to P. H. BRACHER & CO., High Street, Wincanton, for their Patent ESIDERATUM MIXER, as per Cable Message received 2nd Month 19, 1884.

TESTIMONIAL.

The Analytical Laboratory, 30 Hanover Street,

[The Analytical Laboratory, 30 Hanover Street,

Edinburgh, March 7, 1884.

Dear Sirs,—In replying to your letter of the 5tb inst, allow me to say that have much pleasure in testifying to the efficiency of the "Desideratum" iter. Being the inventor of a complicated compound, with which I had no d of trouble in properly and rapidly mixing, I must say I am indehted to ur machine very greatly on the score of rapidly of operation. I usually mix out I cwt. at a time; the material is heavy and apt to clog, but your machine is reduced these inconveniences to nil. s reduced these inconveniences to nil.

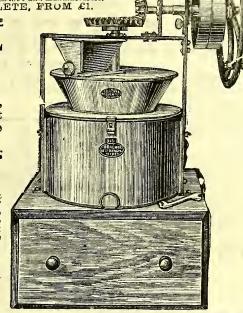
With best wishes,

Messrs. P. H. Bracher & Co.

I am, yours very truly, D. R. S. GALBRAITH.

Send for Illustrated Price List and full particulars, Post Free.

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This Essence, which is an addition of Vanilla, Lemon, and other flavours to the above, is strongly recommended for the man facture of the finest Ginger Beer and Ginger Ale. It imparts, with the exquisite Ginger Aroma of the above-mentione Essence, a peculiarly fine fruity flavour combined with the fullest amount of fragrance and pungency.

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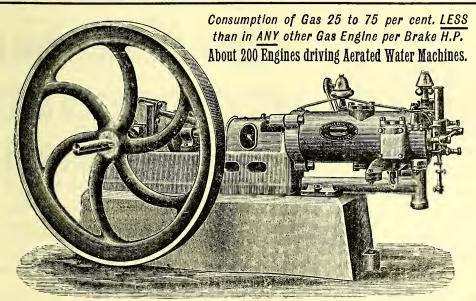
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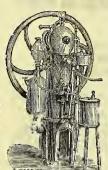
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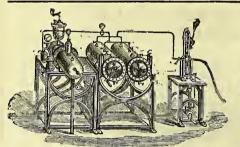
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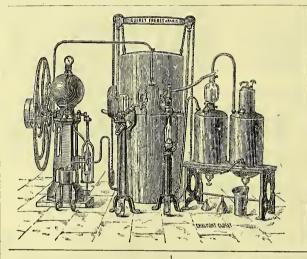
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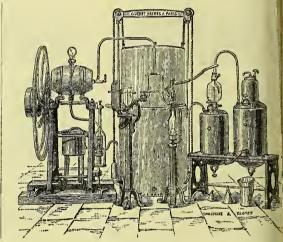
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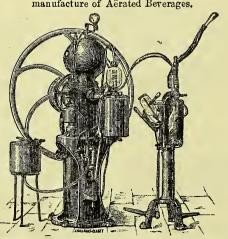
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Dose: Half a glass to three glasses per day before or during meals.

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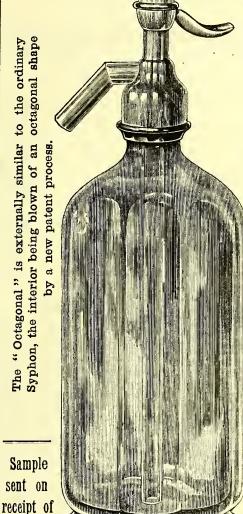
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AFRATED MACHINERY.

READ THE SUBJOINED TESTIMONIAS

Battersea, London, 4th Fehruary, 1
DEAR SIR.—I have much bleasure in sending you a testimonia
your make "Favourite" roda Water Machine, as supplied to my
about 2½ years ago. It has given me every satisfaction, and has a
done its work well; has cost nothing for repairs, because none
required. The waters are highly gaseous, and the machine produces
in the highest state of perfection. Your Dial Pressure Gauge dee
great creoit, as it does not get out of order. Belog an old-establ
Mineral Water Manufacturer, I offer my opinion with some confidenc
You may publish this if you think fit.

Yours truly,

To Mr. WILCOCKS, Bath.

Aërated Wa'er Works, Howden, York February 10th, 1885.

Mr. N. G. WILCOCKS, Engineer, Back Street, Bath.

DEAR SIR,—I have pleasure in hearing testimony to the excusive testimony to the excusive testimony to the excusive testimony to the excusive testimony to follow workmanship of your machinery. Four years since I had an Africa Machine and "Ecipse" Bottler, and also a small Engine and Boiler, and which coatinue to work to my satisfaction. I may add that, with exception of the Engine and Boiler, we put the machinery up ourselve You are at licerty to make what use you like of this.

Yours truly, ROBT, BRIGG

Princes End, Tipton, February, 188

To Mr. N. G. WILCOOKS, Bath.

From Baylis, Thompson & Co., Aërated Water Manufacturers. DEAR SIR,—We have great pleasure in stating that the Aërated W Machinery you supplied us with two years ago continues to work well, gives us every satisfaction.

Yours truly, BAYLIS, THOMPSON & C

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January 24th, 188
From COPELAND & TURNER, Portland Mineral Water Works, 9 Up.
Market Square, Hanley.

To Mr. Wilcocks, Bath.
DEAR Sir,—I have much pleasure in testifying to the excellence the Machinery supplied to us by yon. We have now had it in use for years, and it has given entire satisfaction.

Yours respectfully COPELAND & TURNES J. COPELAND.

Range Road, Denton, Grave-end, Ken February 5th, 1885.

DEAR SIR.—Having purchased of you a Soda Water Machine and England Boiler, I am happy to say they have given me great satisfaction, a are all I could have desired, and it has heen greatly approved of by I many friends. You may print this if you please.

Your respectfully, STEPHEN ALLEN

Mr. WILCOCKS, Engineer, Bath.

Sonthsea Steam Mineral Water Works, Middle Street, January 30th, 1885.

To Mr. WILCOCKS, Bath.

SIR,—Your Turnover Filling Machine is still working admirably, a appears as good now as when I first had it. It is really the best fillin machine for quickness and ease of working I ever had.

Yours truly,

T. MARTIN.

Holland Street, Brixton, London, S.W. From Boe & Merchant, Aërated Water Manufacturers.

To Mr. WILCOCKS, Engineer, Back Street, Bath. Dear Sir,—Your favour to hand. We are pleased to say that the large Double Soda Water Machine that we purchased from you three year ago has heen in constant work ever since. It has given as every satisfaction. In fact, we have never had the slightest trouble with it, and it turns out a first-class Adrated Water.

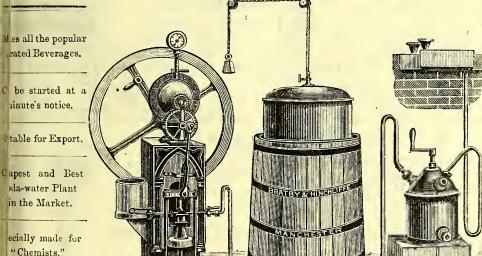
We remain, dear Sir, yours truly,

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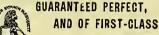
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SEVEN GOLD, SILVER, AND OTHER PRIZE MEDALS FOR Very superior Quality, Make, and special Excellence of Finish.

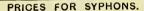
Metal beautifully Polished, and warranted free from Lead.

IMPORTANT.

ALL OUR APPARATUS ARE STAVPED THUS



WORKMANSHIP,



Short Levers				••		••	22/6 p	er doz.
Long ,,					••	••	24/	,,
Octagonal or	Diamo	nd V	ases		••	1/6	per do	z. extra
Superior Nick	el-pla	ted T	ops	••	••	4'6	, ,	,
Strongly Silv	er-plat	ed T	ops			9/	,	,

PRICES FOR SELTZOGENES.

o-pin	Diac, with	COACT					COVELE	u,		TC
5-pint	**	,,		18/ .	Ca	ne	• • •			18
8-pint				Oril	~					
O-DIE	98	2"	~	317	Ca	пе	. 99			-
		LIBE	KAL J	DISOC	UNT.					
With	Silver-plat	ed Tor	Or 3	Wire				5/	03	-to
** 1011									94	K VI
	Drop C	ups, Mea	SHTPS	Ertra	Fitting	e for	Rengir			
	F		,		I totally	0) 01	rec pat.			

CAUT

To ensure the purchase of the genuine celebrated SELTZOGÈNES OF D. FÈVRE, which do not cost more than the imitations, observe on the shoulder of the apparatus the words "VERITABLE SELTZOGÈNE DE FÈVRE," and the Trade Mark signature
Weight of the cases: Cases containing 6 8 pints, about 90 kilos.; 12 5 pints, about 90 kilos.; 12 3 pints, about 60 kilos.

SELTZOGENES CANID & WIRED. ALL MY GOODS ARE TESTED.

OFFICE-

398 Rue St. Honoré, Paris. 9 Rue Castex (near the Bastille), Paris.

MELBOURNE EXHIBITION-First Order of Merit awarded to Thessier-Fèvre.

Celebrate 1 D. Fèvre Seltzogènes and Powders, for immediate production of Soda Water, Eau de Vieny, Sparkling Lemonade, and Aërated Wines.

D. Fèvre, 398 Rue St. Honoré, Paris, Sole Inventor and Proprietor of the Article and Name "Seltzogene." Thessier-Fèvre, Son-in-Law, Manufacturer.

WHOLESALE PRICES.— Celebrated D. Fèvre Seltzogène.—3 pint, wire covered, 12s. each; 3 pint, cane covered. 12s. 6d. each; 5 pint, wire covered. 18s. each; 5 pint, cane covered, 19s. each; 8 pint, wire covered, 30s. Liberal discount allowed.

Case and Packing.—12 Seltzogènes, 3-pint size. 4s. net; 12 Seltzogènes, 5-pint size, 5s. 8d. net; 6 Seltzogènes, 8-pint size, 9s. 8d. net.

CELEBRATED D. FÈVRE POWDERS

FOR THE SELTZOGÈNES.

Pure Tartaric Acid and Bicarbonate of Soda in the highest state of perfection.—3 pint, per dozen boxes of 12 charges, 24s.; 5 pint, per dozen boxes of 12 charges, 36s.; 8 pint, per dozen boxes of 12 charges, 30s.; 3 pint, per dozen boxes of 10 charges, 30s. 6d.; 8 pint, per dozen boxes of 10 charges, 30s. 6d.; 8 pint, per dozen boxes of 10 charges, 45s. 2d. Liberal discount allowed.

Extra-Taps, Tubes, Valves, Washers, &c. Direction for Repairs. Drip Catchers, Fittings, Measures, &c.

ILLUSTRATED CATALOGUE FORWARDED FREE.

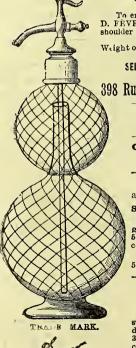


DRIP CATCHERS

D. FÈVRE SELTZOGÈNES. 8s. 6d. per dozen.

Registered April 1, 1879, No. 333,951.

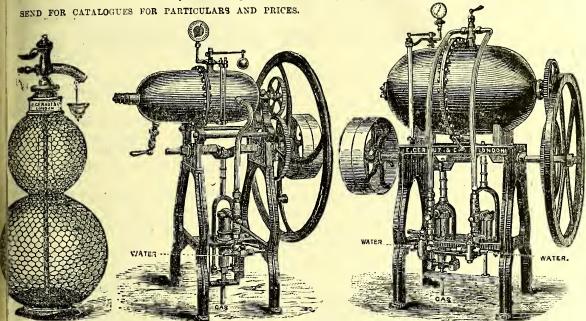
THESSIER-FEVRE, SOLE MANUFACTURER.



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EUGENE GERAUT PATENTEES AND MANUFACTURERS OF Г & CO.,

da-Water Machines, Filling Machines, Syphons, Seltzogenes, &c.



IMPROVED PATENT

FIRST INTRODUCED BY EUGENE GERAUT IN 1853, the immediate production of Eau de Vichy, Soda Water, Sparkling Lemonade, and Aërated Waters.

WHOLESALE PRICES AS FOLLOW:

		••••					0.0		, , ,		•	
3	int	; '	W	ire		13/0) ;	3 I	Pint	Cane		13/6
F	37		9:	,	••	18/0) ,	5	,,	"		19/0
3	int	,	Si	ize,	st	rong	ly s	Silv	ver	Plate	d.	
	ric.	h]	y	Dе	cor	ited,	Por	es:	lain	Stan	ď	30/0
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Ę	?in	t		C	litte)		di	tto			48/0
		ť	M	PC	٦P.	TAN	ıT	N	דחו	CE		

orders of Three, 15%; large discount allowed quantities upwards. Strongly Silver-plated Top, 5/ extra.

POWDERS FOR THE ABOVE.

				15		10 Charges
ı					Per doz.	Per doz.
9	'int	Size, in	Handso	me	Boxes.	Boxes.
	Lab	elled Bo	xes		21/0	18/6
	'int		ditto		30/0	28/0
٤	'int	ditto	ditto		51/0	44/6
		LIB	ERAL DI	SCO	UNT.,	

lustrated Catalogues on application.

l ordering our Seltzogenes through firms distly state that you require our celebrated name, UGENE GERAUT & Co., marked on the metals.



Mesons, E. GERAUT & CO. (the first introducers and manufacturers of Syphons in England 35 years ago) have much pleasure in informing their numerous castomers, and the trade generally, that in order to maintain their position as the Premier Manufacturing Firm of Syphoni at New and Complete the Cory for the manufacture of Glass Van additions to their prosessions of the New and Complete Rectory for the manufacture of Glass Van additions to their press description. Mesons E. GERAUT & CO. emfidently request their customers, and the public generally, to compare their Syphons with any other make at present in the market, feeling assured that for excellent finish, efficiency, and artistic appearance they are second to none in the trade, and the large and increasing demand of late years experienced fully and authoritatively feem ustrates the superiority of their noise of Syphons over the emanufactured by younger firms in this hunch of the trade. Mesus, E. GERAUT & CO. are therefore in a position to undertake orders of the largest magnitude for their justy celebrates are therefore in a position to undertake orders of the largest magnitude for their justy celebrates. Syphons, which are well known at home and abroad for their safety, simplicity and elecrance, and they got safet, to ensure punctuality and despatch, they shall be very happy to book orders in advance, always guaranteeing the best workmanship and materials. The tops are guaranteed to be menufactured of pure block tin, and are most carefully finished, and every Syphon, previous to being seut out, is tested at a very high pressure.

WHOLESALE PRICES: Long and Short Levers, Oval, Cylindrical, Octagonal, and

WHOLESALE PRICES: Long and Short Levers, Oval, Cylindrical, Octagonal, and Diamond, 22/6 per dozen for quantities of ONE GROSS SAMPLES AND CATALOGUE ON APPLICATION.

OUR ONLY ADDRESS IS-139 & 141 FARRINGDON ROAD,



CHEMISTS'

AERATED& MINERALWATERS



BRADFORD, 1

ASSOCIATION, LIMITED.

CHEMISTS NOT SHAREHOLDERS.

I beg to draw your attention to the great success which has attended this Association during the past three years. There are now about One Thousand Chemists on the Books, and Dividends of 34, 5, and 6 per cent. have been paid for the years 1882, 1883, and 1884 respectively.

These facts are most substantial proofs of the satisfaction given to our Shareholders and their Customers, and of the excellence of the Waters manufactured. I therefore feel convinced it would be greatly to our mutual advantage were you to favour us with your trade, for the more the trade the larger the profits, and the greater the possibility of an early reduction in prices.

I have much pleasure in informing you that a few £1 Shares have been placed in my hands for transferring to Chemists (only) wishing to join the Association. Not more than one can be transferred to each Chemist, applications for which will be taken in the order in which they are received. Sample orders sent if required.

Trusting to have your valued support,

H. T. BUTLER, Secretary.

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Sun Factory, Victoria Road.

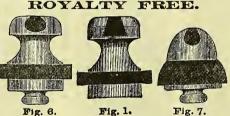
Montpellier Works, Starber

VALLET'S PATENT IMPROVED

For Mineral Waters and Gaseous Liquids,

Are now used by upwards of 1000 Soda Water Manufacturers in the United Kingdom.

PRICES (Per Gross). Patent Stopper, as per Fig. 1.46; ditto, as Fig. 6.46; ditto, as per Fig. 7.46; theto, tistoppered Bottles, ready for use; ditto Half Bottles, ditto; Patent Unstoppered Bottles, ditto, Half Bottles, 20,000 and the United Bottles, ditto, fitted with rubbers, 30,000 common wood Bottle Openers, 56; ditto, fitted with rubbers, 7/6; Fig. 10, New Bottle Opener, 6-1.



It will be seen by reference to figs. 6 and 7 that I now form a but or nut under the base of my Stopper for the purpose of easily extraction same from the Bottle without spoiling or removing the indiarub from the hody of the Stopper. This is readily accomplished by the of a suitable tool made to fit on the nut; the Stopper ib ing graspe withdrawn from the hottle in a second, without injury to the stopper Therefore, it will be a great saving to Mineral Warer Manuff turers, as by the old way of extracting the Stoppers from the Bott when necessary, very often the indiarubber is spoiled, and the time takes by this slow process is worth more than the Bottle transfer is not the many instances Bottles with spoiled or dirty Stoppers are put as as worthless stock.

Figs. 1 and 6 Stoppers, when invoiced without Bottles, are ready fit with the ruhher washer on, and are easily inserted into the Bottle the simple pressure of the thumh, the washer at the same time foldu the sample pressure of the stumn, the washer at the same time food in the hollow part of the stem, when passing into the Bottle. They a the only Stoppers which require no tool to fit into the Bottle; so when a Bottle breaks, which seldom occurs, the Stoppers are alwa fitted with washer and ready to he inserted in a new Bottle. Therefor they are the most durable and inexpensive Stoppers in the Trade.

Sample and Particulars sent on application to

L. VALLET, 49 EVERTON RD., LIVERPOOL

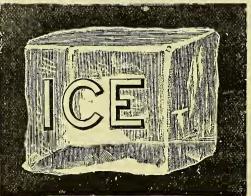
FOREIGN

Fig. 6.

FREDERICKSHALL (5 Cases, 6d. per Case less), 28 | Case, 30 bot.; 39 | Case, 50 | bot. AFOLLINARIS WATER, 25 | Hpr., 100 | bts.

Carriage paid. Hampers free. per cent. discount if 20 Hampers. EUNYADI JANOS (10 Cases, 3/- and 5/- less),

80/- Case	, 25 bts	1.; 50/					
ELTZER		***	-	11/-	Hpr.	, 25 b	ts.
**	***	***					
PULLNA		•••	***	18/-	Case,	20 b	te.
**	***	***	***	80/-	Case,	50 ₫	-bts.
VICHY				31/-		50 b	ts.
"				27/-	**	50 3	-bts.
CARLSBAI				87/-	**	50 b	ta.
KISSENGE				42/6	**	50	
SCHWALL	BACE	1		27/6	99	50	99
HOMBURG	***	***	-	40/-	37	50	**
WILDUNG	EN	***		43/-	"	50	,
ARLSBAI	S A	LTS.	1-Be	ts., 2	0/- 1	er	
da Date.	10/- pe	ar doz	B	41.,90	1/- DE	er de	,



REGISTERED AT STATIONERS' HALL.

FROM FINEST LAKES IN CHRISTIANIA.

Professor Frankland's report with analysis:
"The Ice is exceedingly pure, and contains let foreign matter than any water with which I am acquainted in this country."

Original Blocks (2 to 3 cwt. each) 2s. 0d. per cwt
1 cwt. to 2 cwt. ... 2s. 6d. per cwt
2 cwt. to 1 cwt. ... 3d. per lb.
Under 1 cwt. ... 1d. per lb. Under 1 cwt. Packing free. Utmost promptitude in despatch

W. B. HARRISON

Importer of Ice and Mineral Waters, 6 BRIDGE ST., SUNDERLAND.

THE

IDRIS ELTZOGENE.

Unequalled in Style and Finish.

ANE OR WIRE COVERED.



For Price List and Terms,

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MANUFACTURING COMPANY,

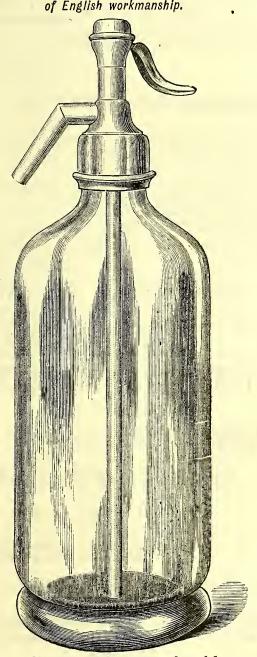
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THE

IDRIS SYPHON

Is the best in the Market, combining the elegance of the French with the strength and superiority of English workmanship.



Intending purchasers should apply for samples and prices, before placing their orders, to the

IDRIS MANUFACTURING CO., Ascham Street, London, N.W.

Tops guaranteed to be made of Best English, Tin and free from L-ad.

BINGLEY'S SUPERIOR GINGER ALE

AN AROMATIC AND NON-INTOXICATING STIMULANT.

Manufactured by a Special Process worked out by the Proprietor, by means of which the ARONITO properties and TRUE DELICATE FLAVOUR OF JAMAICA GINGER are fully retained It is confidently offered as a very superior article.

The following are a few of the opinions which have been expressed in reference to

BINGLEY'S

GINGER

The Chemist and Druggist of January 15, 1883, says:—"We are bound to report most favourably. Very few makers have succeeded in so feet presenting the odour and aroma of Jamaica Ginger in a clear, bright, sparkling beverage."

The Midland Medical Miscellany of August, 1883, in a note referring to Bingley's Aerated Waters, says:—"We are particularly pleased him Ginger Ale, which, as is not always the case, really presents the flavour of Ginger."

The British and Colonial Druggist, May, 1884:—"Mr. John Bingley, F.C.S., Northampton, has submitted to us samples of his Ginger Ale, a fighth of the maker to state that we have never tasted better."

The London Medical Record, December 15, 1884, referring to BINGLEY'S GINGER ALE, states:—"The general excellence of the Ginger Ale a male alcoholic drink has been established to the satisfaction of the analyst. . . . BINGLEY'S GINGER ALE contains the true flavour of Jamaica Ginger.

Extract from a letter dated December 5, 1884, received from a Medical Gentleman in the West Indies, who had sent for a sample :- "Your m Extract from a letter dated December 7, 1884, received from a Medical Gentleman in the West Indies, who had sent for a sample:—" four my of Ginger Ale came duly to hand. Upon trial I found it to be an excellent article, and as a beverage it will sait this climate of eternal summer to the year round. It is pleasant, grateful, and tonic; as useful in the sick room as on the dining-table. One of my patients, who had become fastidious, and could not relish either meat or drink, was persuaded to try one of your bottles of Ginger Ale (iced); after drinking it he small lips, rubbed his chest, and exclaimed, 'That Ginger Ale has just fit my stomach.' He wanted more, but unfortunately I could not supply a lintend when making my next order to send for . . . cases. I believe it will sell well here."

> MANUFACTURED PV

Specially prepared for exportation to warm climates.

All persons who are interested in such beverages, either for the Home or Export Trades, are earnestly invite send for samples, which will be supplied GRATIS on application, either direct or through any English merchant.

CANTRELL & COCHRANE'S

CELEBRATED

AROMATIC GINGER ALE, SPARKLING MONTSERRAT. "CLUB SODA," AND MINERAL WATERS,

As supplied to Her Majesty's Imperial Houses of Parliament,

Have been Awarded TWENTY-THREE GOLD AND PRIZE MEDALS at the various International Exhibitions.

Goods for Export are specially prepared, and are guaranteed to keep in any climate.

PRICES AND TERMS ON APPLICATION TO-

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SPECIALITIES:

GINGER ALE (AROMATIC).

ORANGE CHAMPAGN

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SPARKLING PHOSPHORETT.

Made by an entirely New and Special Process, SO THAT THEY IMPROVE BY KEEPIN.

Trade List post free from the Manufactory,

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FOSTER'S PATENT SCREW-STOPPERED BOTTLE

(THE ORIGINAL PATENTEE OF SCREW-STOPPERS)

THE INTERMITTENT"

(Gained the Gold Medal at the International Health Exhibition, London, 1884, in Competition),

The Advantages of which may be enumerated as follows:-

NO ANNUAL ROYALTY CHARGED.

No Corks to fly out! No Corkscrew required! No Cork Dust in the Drink!

No splashing in opening! A better quality of Water is obtained in them!

More highly-charged with Gas! A small quantity can be taken at intermittent periods, and the remainder kept bright and sharp for future use!

The convenience of a Syphon at the expense only of a Cork bottle!

The most delicate hand can open them!

Foster's Patent Stopper is made of Lignum Vitæ (Wood of Life), properly prepared, to prevent swelling or leakage; and nothing can be cleaner!

The ring making the joint is fitted to a groove on the stopper, and does not come off!

The diameter of the rim of Stopper being larger than the neck of bottle a good grip is afforded for opening.

They are easily syruped and filled by Foster's Challenge "Machine."

PRICES OF BOTTLES-

IMPERIAL HALF-PINTS, for Mineral Waters ... Per gross, £0 14 0 "SPLITS" , , 0 12 0

STOPPERS ONLY, 12/ per gross.

Sample, filled with Aërated Water, forwarded upon receipt of 1s. in stamps. Every description of Screw-Stoppered Bottles supplied for Beer, Wines, Spirits, &c.

FOSTER'S PATENT BOTTLE BIN CASES.

For holding 2 dozen of the "Intermittent" or the "Globe-stoppered" Bottles' These Bin Cases (lately patented) are the strongest, most compact, and lightest of any in the market, being constructed on an entirely new principle.

Price, for either Full size or Split Bottles, 2/ each by the 100. Sample forwarded on receipt of 2/6.

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Mieral Water Engineers, Manufacturing Chemists, and General Providers to the Mineral Water, Wine, Beer, and Cyder Trade,

NIAGARA WORKS, 26T EAGLE WHARF ROAD, LONDON, N

EST AWARDS-3 GOLD, 2 SILVEP, AND 2 BRONZE MEDALS AT THE INTERNATIONAL HEALTH EXHIBITION, LONDON, 1884.

Illustrated Catalogue of every speciality for the above Trades forwarded free.

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Unrivalled for fine Aromatic Flavour.

Write for Samples for comparison, which is the most satisfactory way of testing.

GOODS SPECIALLY PREPARED FOR EXPORT.

Manufactory: GLOUCESTER.

PURVEYORS BY SPECIAL APPOINT EN TO HER MAJESTY THE QUEE

MUMBY'S

Are Perfectly Pure and of First-class Quali.

SODA WATER, POTASS WATE, SELTZER WATER, TONIC WATER GINGER ALE, LEMONADE, &.

IMPORTANT TESTIMONIAL.

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H.M.S. "SERAPIS," Portsmouth, 25th Malest
Messrs. C. Mumbr & Co.,
Gentlemen,—The Soda Water supplied by you for the use d.R."
The PRINCE OF WALES on board H.M.S. "Serapis" was of one
quality, kept in good condition, and gave great satisfaction to I kin
Highness, his suite, and the officers of the ship.

THOMAS BRADBRIDGE, Payster T. W. SCADDAN, Chief Stewi (Signed)

These Celebrated Waters can be supply in Syphons with Silver-plated Tops. GOODS CARRIAGE PAID. PRICES ON APPLICATION

34 THE HARD, PORTSMOT

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PURE SODA, SELTZER, POTASH, LITHIA, &c.,

GINGER ALE, QUININE

Prepared and Bottled specially for Export, and warranted to keep well.

Manufactured with the utmost care and by improved machinery, these productions are recommended for purity and excellence of quality by many leading members of the Medical Profession, and have for many years had a preference by the public; the flavour of the Lemonade and Ginger Ale being procured from the fresh Fruit and Finest Jamaica Ginger, they may be relied upon as furnishing delicious and satisfactory beverages, either for general use or specially for invalids.

The Soda Water is absolutely free from any metallic impregnation, and being by improved machinery highly charged with Carbonic Acid Gas, and each bottle containing a definite and unvarying proportion of Pure Carbonate of Soda, J. & B. have every confidence in inviting a trial from those who have not already patronised them.

The Seltzer, Potash, and Lithia Waters are prepared with the utmost exactitude and the

The Seltzer, Potash, and Lithia Waters are prepared with the utmost exactitude and the

purest ingredients.

The New Quinine Tonic furnishes a pleasant form for the administration of a most valuable restorative, and is refreshing and agreeable.

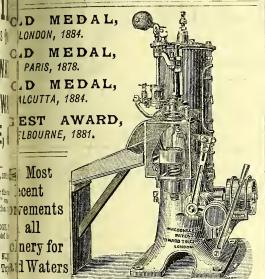
Ginger Ale (Aromatic) of superior quality, and strongly recommended as a Non-Alcoholic and warm stimulant beverage.

N.B.—Every Bottle is protected by a distinctive Label, with Name and Trade Mark, and each Cork is branded.

Counter Bills and Analytical Reports, with Agents' Names and Addresses, supplied when requested.

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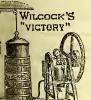
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EASY TERMS.

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AERATED WATERS,

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DA POTASH, SELTZER, AËRATED (without Alkali), and LITHIA WATERS, LEMONADE AND GINGER ALE.

the is protected by a Label bearing the S gnature of the Firm.

it in Excellence of the Water certified by Analysis by Professor Affrield, Ph.D., F.C.S.

THE "LONDON-MADE"

TITLE REGISTERED).

Obtained the HIGHEST AWARD at the International Health Exhibition, London, 1884.



The high reputation this bottle has achieved is due to the fact of its being in every partieular the most perfect yet introduced; and when compared with others in the market it stands pre-eminent. It is most simple in its working parts, therefore the simple in its working parts, therefore the least liable to get out of order; it is the most easily opened, the lightest pressure on the haddle being sufficient; it produces a more highly-charged gaseons water than is usually obtained from symbons. obtained from syphons ; it compares most favourably in appearmost ance with any, and, the metal top being entirely free from lead, the pre-judice against syphon drinks is at once re-moved, as the liquid passes over pure tin only.

All our Syphons are now fitted at the base with a groove, so that drips from the spouthat run down the sides are prevented from soiling the table. See drawing.

NOTE .- Syphons made with our ratent foot for collecting excess of liquid dripping from the spout after use are supplied at no extra charge, and will be found of great utility in preventing stains, &c., uron table linen. This is a desideinen. This is a deside-ratum long been wanting, particularly for private-bouse use. Send for sample; forwarded upon receift of 28.

Any name, crest, or rade-mark put on the class by an improved acid process, at from 18s. to 24s, per gross. There is a three-fold advantage in this, as it forms a continual advertisement, is a great ornament, and a great ornament, and a preventive of fraud. The extra from 5s. upwards, according to the artistic device required.

PRICES (WHITE, BLUE, GREEN, OR AMBER):-

Less than 1 gross, per doz. By the gross, per doz. £1 2 0 1 1 0 1 0 0 £1 4 0 1 3 0 1 2 0 ... Half-pint, Pear shape
Octagonal vases, any colour (including Azure Blue)

FOSTER. BARNETT

MINERAL WATER ENGINEERS,

Manufacturing Chemists, and General Providers for the Acrated Water, Wine, Beer, and Cyder Trades,

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GOLD MEDAL, LONDON.



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1884,

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CHEMICALS, PHARMACEUTICAL PREPARATIONS, and FRUIT ESSENCES, bottled and in bulk for low

CITRATE OF IRON AND QUININE, SULPHATE QUININE, ETC. SOLUBLE ESSINCES. TINGIURES AND SPIRIT PREPARATIONS IN BOND, ETC.

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CAPSICINE
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PRIZE MEDAL MELBOURNE, 1880

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LARGO MUNIZIONE, MESSINA, SICILY,

MANUFACTURERS, ESTABLISHED ON THE VERY GROWTH PLACE, FOR THE FINEST

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Of Lemon, Bergamot, Sweet and Bitter Orange. Recently Awarded at the Exhibitions of

CALTANISETTA, 1879—A Gold Medal and 200 Liras for Invention of Machinery to the use of their Manufactory, and Silver Medal for Excellence of Produce.

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A first trial order is quite sufficient to remain convinced of the Excellence of our Essences.

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Distillers and Importers of

ESENTIAL OILS AND FRUIT ESSENCES,

SOLUBLE ESSENCES FOR AËRATED WATER

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J. B. & CO.'S "SPECIALITY" ESS. LEMON is double the strength of ordinary commercial qualities.

V. J. B. & CO. caution the Trade against the so-called soluble Essences now so frequently offered to rale, which are nothing more than mere tinctures, and, although offered at lower prices, cost five times as much in use, whilst imparting a strong medicated flavour.

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FRENCH CREAM GUM EXTRACT,

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producing a head of Creamy Richness upon all kinds of Syrups, Aerated Waters, Beers, Ales, Cider, Champagne, &c., 2s. 6d. per pound.

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NGLISH DRAWN ESSENTIAL OILS.

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THE FINEST LEMONADE.

Added in the proportion of one fluid ounce to each gallon of syrup, the soluble essence imparts the most delicious flavour of the Lemon.

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The Essence mixes well with water, and has a delicate flavour. The Lemonade made therewith has a far more delicate flavour than that generally met with.—
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CAN BE OBTAINED FROM THE SOLE AGENTS,

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Retail Price, in Half Champagne Bottles, 5/6 rd

This SPARKLING, EXHILARATING, and REFRESHING DRESSING far more agreeable in bouquet and flavour than the FINE OR PAGNE WINE, is, at the same time, unlike it, FREE from AL HOLLING STREET STATE TO THE STREET STATE TO THE STREET STATE TO THE STREET STATE STATE TO THE STREET STATE STAT

Samaritan Free Hospital, Lower Seymour Sat. Portman Square, Loin, W

Dear Sir,—I have tried your Ginger Capwhich I find to be excellent, and I look up the pin the right direction towards meeting felt want. Our Senior Physician, Dr. Hemsen has also tried it, and is much pleased with ought long ago to have had such a bevel, so believe that a great deal of drinking would up been prevented. I wish your effort much such I am, dear Sir, yours faithfully.

GEORGE SCUDAMORE, S: tarp

An excellent and most agreeable bevela-

Made by Mr. Hay, of Hull, with his who Soluble Essence of Jamaica Grager, the as a pure, wholesome, simulating, a Alcoholic beverage,—Brilish Medical Journ

One of the most delicate and wholesome it the market.—Medical Press.

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FOR

Vine, Spirit, Beer, and Syrup

FILTRE RAPIDE."

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To SOFTEN WATER for WASHING.

Full particulars in Pamphlet, "Water, Preventable Disease, and Filtration," by P. A. MAIGNEN, 32 St. Mary-at-ll, Eastcheap, London.

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FILTERS FOR

B means of these ot wholesome water ay drunk from any on or stream by immersing the ilt herein and drawe water through se be by suction. Eh of these port-



used as a Syphon by placing it in a vessel of water, then drawing the water by the mouth, and allowing the flexible tube to hang over the side be-low the Filter. When once set in operation their action is con-

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Filters	шау	De			uп	uous.				
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FLIERS

TABLE FILTER,

Made of stout glass, in 1, 2, and 3 pint sizes, the filtering medium being securely fitted into the bell-funnel, so that it is not liable to become loose, or to allow unfiltered water



NO. 24.

to pass. This Filter is peculiarly suited for the Bedroom and for Table use, affording a ready and simple means of obtaining at any time freshly-purified water.

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WITH PATENT MOVEABLE BLOCK.

MADE IN MARBLED CHINA.

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A	 Two Gallons		••		35s.
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The large size (B) is specially adapted for Hotels, Refreshment Rooms, Luncheon Burs, &c.

REFRIGERATOR FILTER. NO.

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Made in Porous Terra-Cotta Ware,

Which acts with remarkable power as a cooler, and renders this Filter invaluable, especially in Tropical Climates,

AFFCRDING A GOOL DRAUGHT OF PURE WATER.

Price, with Silver-plated Tap 31s. 6d. Capacity Two Gallons.

Specially adapted for Tropical Climates.



Complete, Price £3 3s. each.

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WITH PATENT MOVEABLE BLOCKS,

Schweppe, London, Liverpool, Glasgow,

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MINERAL WATER MANUFACTORIES, As used by Messrs.

SILICATED CARBON MAIN SUPPLY FILTER.

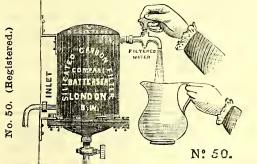


SECTION)

PRICES. For $\frac{3}{4}$ -in. Pipes £6 6s.

1-in. Pipes £9 9s.

WITH PATENT MOVEABLE BLOCK. SILICATED CARBON [TRADE WARK]



UNFILTERED WATER

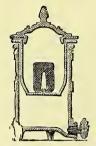
These Filters require no attention from servants, as they are always filled and ready for use. The act of drawing Unfiltered Water cleanses the The act of drawing Unfiltered Water cleanses the Filter, by washing away the impurities collected on the carbon.

FOR FULL PARTICULARS WRITE TO

CHURCH ROAD, BATTERSEA, LONDON, S.W.

CAUTION—Circnmstances which have come to the knowledge of Andreas Saxlehner, Buda Pest, Sole Proprietor of the Hunyadi do Spring, compel him to warn the British Public against SPURIOUS IMITATIONS. To secure gennineness, purchasers should see that every bottom on the LABEL the name of "THE APOLLINARIS COMPANY (LIMITED), London."

LAMBETH,



DOULTON'S MANGANOUS CARBON FILTERS (Dr. Bernays's Patent).

The Combination prepared under this Patent gives to the Charcoal its highe-t value as a

FILTERING MEDIUM.

The Filter is made in four movable parts—the boly, the lining, the Manganous Carbon block, and the cover. By this means every portion of the Filter may be

KEPT PERFECTLY CLEAN,

and the Manganous Carbon block may be changed as often as necessary WITHOUT PARTING WITH THE FILTER.

DOULTON'S IMPROVED GRANULAR CHARCOAL FILTER.

In addition to the bid of Granular prepared Charcoal, these Filters are fitted with a movable block of MANGANOUS CARBON in place of sponge. This arrangement, whilst acting as a screen for suspended matters, gives a double action to the power of the FILTERING MEDIA.



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For

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Any Description of Filter Refitted at Moderate Charge.

DOULTON & CO. also manufacture Bondoir or Table Filters, Pocket and Syphon Filters for Tourists' use, Manganous Carbon Self-Acting Cistern Fis Refrigerator Filters, High Pressure Filters for manufacturing purposes, &c. May be had of all Dealers.—DOULTON & CO., Lambeth, London, S

ESTABLISHED 1812

CLEMENTS &

Liquid Extract of Annatto.

Extract of Annatto.

Drug, Chemical, and Seed Grinders.

PRIME



SEED & DAUBERS

Ters of
Press GRINDERS. RENNET.

Butter Colouri

ESTABLISH)

1812.

Manufacturers of Liqu Importers of Flag, Seed, and Roll Annatto.

atto. Cake Annatto. Roll Annatto. Butter Colouring. Milk and Butter Preservation Rennet. Dyers' Chemicals. Dye Woods and Dye Stuffs. Aniline Colours. FOR CHEESE-MAKING IS THE PRIME RENNET POWDER. THE NEWEST PRODUCTION

LEWIN'S BRISTOL DRUG MILLS, MEAD. ANDI ondon Agents-BARCLAY & CO., and all Wholesale Druggists.

First Class Medal, New Zealand, 1882; First Prize Medal, New Zealand, 1883; Cork, 1884.

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Castle Square, SWANSEA; 34 Eastcheap, LONDON.

Note London Address, having no connection with a Retail Firm of same name. Established 1760.

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(PATENTED).

A Combination of FRY'S Pure COCOA EXTRACT with

EXTRACT OF MALT HANBURYS' CONCENTRATED

J. S. FRY & SONS, BRISTOL AND LONDON.

. S. LLOYD'S EUXESIS,

FOR SHAVING WITHOUT SOAP, WATER, OR BRUSH.

T GENUINE Euxesis bears the following distinctive marks :-

1.—The Name AIMÉE LLOYD on cap of tube.

2.—The words "Prepared only by his Widow" in RED INK across labels.

lanufactured only by AIMÉE LLOYD,

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I. S. LLOYD'S EUXESIS,

For Shaving without Soap, Brush, or Water.

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The only Genuine has a yellow label printed ONLY in Black Ink, and bears the original lacress of the late inventor, "27 Glasshouse Street, Regent Street," the proprietors having purchased, were an administration suit, the Secret, Trade Mark, Goodwill, and Premises.

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IMPORTERS AND MANUFACTURERS OF LEMON, ORANGE, AND CITRON PEELS.

BOR CONFECTIONERY WORKS,

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L'enges of all descriptions made from Customers' private formulæ (or ingredients), and stamped with any name or device.

PECIALITIES—Cough, Peppermint, Rose, Musk, Bouquet, Cachou, and all kinds of Medicated Lozenges.

ESTABLISHED 1843. PRICE LIST ON APPLICATION.

INDEX TO ADVERTISEMENTS,

PAGES 37 and 38.



THE LANCET

" A most concentrated and set form of liquid food; contains large and ties of albumen."

BRITISH MEDICAL

"Its administration has been anded with much benefit."

CROYDON GENERAL HOSPITAL.

"I have found it a most useful right tion in those cases where a nor blo and stimulating food is necess.

BIRMINGHAM HOIEO. PATHIC HOSPITA.

"I find it is retained when a "the food is rejected."

ANDREW WILSON, sq., F.R.S.E.

MON

LEEDS

"Kreochyle contains albumine or nitrogenous compounds in verbig nitrogenous compounds in verification, it possesses the immense rattage of always being ready flue. The effects of its administrative arrespedity observable in cases in all other forms of nourishmenary been rejected. One most betch property, that of rapid diffully characterises it. The administrative of Kreochyle relieves pain and use until such time as other foods aborne and diges red. Those in uto a safe and satisfactory liquid for any form of weakness or diseaseant of do better than give Kreocles not do better than give Kreocles trial."

KREOCHYLE IS A PURE LIQUID MEAT, CONTAINING, IN ADITION TO THE ORDINARY "MEAT EXTRACTIVES," THE WILE OF THE SOLUBLE ALBUMEN OF THE MEAT IN A FORM SHITH THAT IT IS ALSOLUTELY SELF-DIGESTIVE.

FOOD AND

STIMULANT BARFF

FOR INVALIDS AND INFANS

PRICES-Retail, 5| per pint; 2/9 per 1 pint; 1/6 per 1 pint.

HAND-BILLS, SHOW-CARDS, AND SAMPLES SENT WITH EVERY ORDER IF DESIRED.

> ROYAL LETTERS PATENT.

BORO-GLYGERIDI FOOD PRESERVER.

SURGICAL PURPOSES.

THE TIMES, April 1. 1882.—" When the Solution is added to Cream, the latter undergoes no change in the hottest weather; and Cream ti

prepared has been sent both to Zanzibar and to Jamaica, arriving sweet and good at its destination in either case. "The Fowls and Beef proverved by Barff Boro-Glyceride were only used this last voyage, making a period of four and and a half months; they will firm and perfectly sweet. Signed, P. F. Pin, Steward steam yacht Coylon, October 13, 1884."

THE LANCET .- "Nothing can be better than the action of this compound."

Pamphlets, Samples, &c., sent with each order if desired.

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FOR PARTICULARS CONCERNING KREOCHYLE AND BARFF BORO-GLYCERIDE APPLY TO THE

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CASH PRICE

Os. for 12½ GALLONS.

CASKS FREE.

School of Cookery, Crystal Palace, S.E. January, 1883.

IR. PETER TYRER,
SIR.—I have been using the "Borough" thup, and am very pleased with it. Its rour is excellent, both for all kinds of roury dishes and Soups; and I most cernly should advise every cook and houseper to use it, for I HAVE NEVER YET MET EQUAL.

MARIAN SMITHARD,

Lecturess on Cookery.

MANUFACTORY-

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stch Agency-115 West Nile Street, Glasgow.



SEVEN INJUNCTIONS have been granted during the past few months.



"YORKSHIRE RELIS



OTICE IS HEREBY GIVEN that in several actions instituted by Messrs. GOODALL, BACKHOUSE & CO., of Leeds, Injunctions have been recently granted by Judges of the Chancery Division of the High Court of dicature, restraining several persons from using several Counterfeits of Messrs. Goodall, Backhouse & Co.'s bels, and in particular against the use of the words "YORKSHIRE RELISH." The sole and exclusive right to e use of which words having been finally established by the above Firm, they will take immediate proceedings ainst parties manufacturing or offering for sale Sauce under the above title, not being of the manufacture of esars. Goodall, Backhouse & Co.

Information may be given to the undersigned,

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A New really Nutritious and Agreeable Food for Invalids, as well as for all persons in good nealth.

A solution of the long-south scientific problem. The nutritious constituents of fresh meat peptonised and retaining the albumen, forming a product of the highest alimentary order, not liable to decompose, agreeable to the taste, invigorating, and instantly assimilable, without requiring the process of direction. Used with the best results in the Hospitals of London, Paris, Berlin, Vienna, &c. Specially recommended for convale-cents, and for sufferers from dyspepsia, poverty of blood, sudden faintness, &c. For further details, see The Lancet of September 6th, 1884.

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Prepared by R. STUEIZ, Chemist, Successor to Dr. MIRUS, Jena, Germany.

his carefully prepared Meat Solution contains the real stimulating and nourishing constituents of the best quality of beef, freed of fat and sinews. is exceedingly appelising, and easily digested even by the weakest stomach. It can be taken either entire or diluted with water. It is totally devoid that obnoxious, nauseous taste to common to most of the meat preparations. It will keep good in hermetically closed time for any length of time. It is totally devoid of

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Specially adapted for the Colonies and Hot Climates, being free from all HEATING and IRRITATING Properties.

Is unequalled as the most Wholesome and Nutritious Food FOR INFANTS AND INVALIDS.

SCOTT'S MIDLOTHIAN OAT FLOUR, made entirely from the finest quality of Milothian Oats, is easily repared, most satisfying, and ivaluable in promoting the growth of book, and a bealthy regularity of system when given to infants, as it cold be used through an ordinary seding Bottle by Infants of a few weeks old. Guarante-d perfectly pure, being free from huse and vegetable fibre.

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SEVEN PRIZE MEDALS AWARDED.

HOUSEHOLD SPECIALITIES YORKSHIRE RELISH.

THE MOST DELICIOUS SAUCE IN THE WORLD.

This cheap and excellent Sauce makes the plainest viands palatable, and the daintiest dishes nore delicious. To Chops and Steaks, Fish, &c., it is incomparable. Sold by Grocers, Oilmen, Chemists, &c., in Bottles, &d., 1s.,

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Makes delicious Puddings without Eggs, Pastry without Butter, and beautiful light Bread without Yeast. In 1d. Packets; 6d., 1s., 2s., and 5s. Tins.

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Supplied by the Patent Medicine Houses on the usual terms, or the Makers

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LABELS bear Full Directions, without any name and address, but with space for p Labe's. If 1 gross of 6d, or 1s. size, or \(\frac{1}{2}\) gross 2s. 6a. size, to ordered, well-designed bels will be printed at same quo'ations with Chemist's own Name and Address.

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FOR. INFANTS & INVALIDS.

40s. per cwt. nett

This Food is prepared on modern Chemical and Physiological bases. REQUIRES NO COOKING, and is reliable in every sense.

ECIAL NOTICE & CAUTION.

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e Original Manufacturers of Essence of eef (green label under wrapper), and other Specialities for Invalids, have

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From their SOLE ADDRESS, No. 11 LITTLE STANHOPE STREET, MAY-FAIR, W, and caution the trade to

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CAUTION. For FISH. Each Bottle of this celebrated STEAKS. Sauce, prepared from GAME. the Original Recipe, bears the well-known Label, signed-&c.

This Label is protected by PERPETUAL INJUNCTION in Chancery of the 9th July, 1858, and without it none can be GENUINE.

Prepared only by E. LAZENBY & SON, LONDON. And sold Retail by Grocers, Oilmen, Italian Warehousemen, &c., throughout the Kingdom.

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The small leaf from some of the finest India and China Teas. Produces
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BEST at the PRICE EVER SOLD. Great strength and a most useful ea where there is a large consumption. Recommended to all who wish to AVE in their Tea. Agents appointed, where unrepresented, throughout he United Kingdom.

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MUSTARD.

Qualities

Are made from the finest mustard seeds only. Their compounds, as manufactured for upwards of a century, are guaranteed free from all ingredients imparting spurious heat, and are therefore equally suitable for both table and medical purposes.

6 BROKEN WHARF, UPPER THAMES STREET. LONDON.

THE GENUINE PREPARATION

McMaster, Hodgson & Co., Dublin,

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This Essence has been before the public nearly twenty years—its recommendations are the entire absence of and mineral acid, which are highly objectionable, particularly when it is used with children.—Analytical Report Dr. Cameron.

Royal College of Surgeons, Dublin,

March 6, 1885.

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I have made experiments with McMaster, Hodgson & Co.'s "Sweet" Essence of Rennet. I find it to b very excellent preparation, free from the objection made against the Rennet Essences which contain salt. coagulation of this Essence is considerable, and it is an article which I can recommend. CHAS. A. CAMERON, (Signed)

Professor of Chemistry, R.C.S.I., Medical Officer of Health and Anal

In order that you may have no complaints of the quality, be careful to order McMaster, Hodgson & Conuine "Sweet" Essence of Rennet.

McMASTER, HODGSON & CO., DUBLIN, Sole Proprietors and Manufacturers.

ALSO MANUFACTURERS OF THE

RENOWNED "IMPROVED" Fluid Extract of ANNATTO

CELEBRATED BRAND DANISH BUTTER A

HANDBILLS CAN BE HAD ON APPLYING TO THE WHOLESAU HOUSES.

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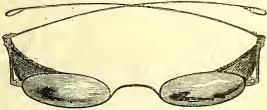
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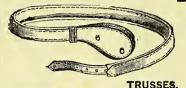
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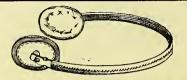
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 It is warm and light, and well adapted for a camp or field bed, being waterproof.

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7. By the temporary removal of one or two tunes it affords room for

the introduction of hed-pan.

8. It can be inclined to any angle (even when filled with water) to suit the condition of the patient.

9. It is free from noise and snrging, so disagreeable to the invalid on changing his position on a water-hed.

10. In case of in jury to a tune it can he withdrawn, and a fresh one substituted at a trifling cost, and without loss of time; whereas the ordinary water bed if injured in any part (from heing in one compartment)

is rendered useless. 11. In the treatment of insane or paralysed invalids who have no control over their evacuations, they cannot lie in a pool of wet, the fluid passing away between the tubes.

Digestive Ferments.

THE SERIES OF ARTICLES ON IM-ROVED FORMS OF THE DIGESTIVE ERMENTS WHICH HAVE APPEARED N THIS PAGE WILL SOON BE PUB-ISHED IN PAMPHLET FORM, COPIES YAY BE OBTAINED FREE, UPON RE-UEST.

ARTICLE III. Extractum Pancreatis in

TYPHOID FEVER.*

BY FRANK C. WILSON, M.D.

rofessor of Physiology in the Hospital College of Medicine, Louisville, Ky.

In typhoid fever, more than in any other disease, do the dications point clearly and emphatically to the most careful etetic management of the case, from the beginning to the d of it. The debilitating effect of the continued fever, otracted through a period of four or six weeks, and somemes even longer, must be combated in every possible way, id yet without adding to the danger of loading the intesies with undigested food, of itself a source of evil and scomfort. Only that which is absorbed and assimilated of real service to the system. In the enfeebled condition the digestive organs very little of the food taken into the omach can or will be digested, but passes down through e intestinal tract in a constantly fermenting state, thus lding to the discomfort by the increasing flatus, and over the inflamed and ulcerated Peyer's patches, producing, posbly, hæmorrhage, or even death, by perforation. The great inger from this source has led some eminent physicians to lvocate even total abstinence from food, confining the tient strictly to water, even for three or four weeks. If, owever, food can be so thoroughly digested, before being ken into the stomach, that all will be readily absorbed ad assimilated, leaving no residue, the indications will be ilfilled. Milk is the article of diet usually relied upon for eding typhoid-fever patients, but even when the digestive gans are in a healthy condition it coagulates into a mass curd as soon as it reaches the stomach. This hard mass as then to be digested and disintegrated before being osorbed. If this fails to be accomplished by reason of the nall quantity or poor quality of the digostive fluids, the ritating mass passes down through the intestines—a onstant source of annoyance and danger. This may all be briated by digesting the milk with the Extractum Pancreatis

Milk so treated cannot be coagulated by even the strongest cids, its casein being transformed into peptone and in ondition to be at once absorbed and assimilated. There is oticeable a slight bitterness, to which the patient soon ecomes accustomed, so that it is taken readily and produces o discomfort. Even this bitter taste may be avoided by topping the process of digestion before it is entirely com-leted. It has been found by experiment that the objec-ionable taste is only developed when the casein is entirely eptonised. It is scarcely ever necessary to carry the rtificial digestion quite so far, and when stopped at any oint before completion the taste is perfectly natural. If mmediately placed on ice it can be kept as long as simple ndigested milk. The ferment of the pancreatic extract is eld in a latent condition, and when taken into the intesinal canal may still further aid in the completion of the

igestive process.

To avoid the possibility of the patient becoming tired of he same article of diet day after day, its form of administra-ion may be varied in a number of ways. As the casein is eptonised, and cannot be coagulated by even the stronger

* Reprinted from THE AMERICAN PRACTITIONER.

acids, the milk so prepared can be utilised in making milk-punch. This can be flavoured with lemon-juice or any other acid desired. Thickened with gelatine, sweetened and flavoured, it forms a delicious milk-jelly, suitable for convalescent patients and grateful to the tastc.

During the past two years I have met with many instances in which the usc of the Extractum Pancreatis has yielded the most gratifying results. Not alone in typhoid fever is it useful, but in all instances where the digestion is enfecbled, or where it is interfered with by the presence of ulcerated or inflamed surfaces, the process of peptonising the food will be found of service. In rectal alimentation its importance is manifest, the food so prepared being readily absorbed and appropriated without inconvenience or irritation. I have sustained patients with gastric ulcer entirely by nutrient enemata twelve or fourteen days. In this time the ulcer will be entirely healed, so as to allow the cautious administration of peptonised milk in gradually increasing quantity, until a full meal can be taken.

To Dr. Roberts, who first suggested the importance of peptonising the food, and to Fairchild, whose Extractum Panereatis enables us to so readily and thoroughly accomplish it, the profession owes an everlasting debt of gratitude, echoed by many patients whose lives have been saved by its use.

Louisville, Kv.

The Value of Peptonised Milk

PREPARED WITH EXTRACTUM PANCREATIS.* BY FRANCIS L. HAYNES, M.D., PHILADELPHIA.

I have used milk, artificially digested by pancreas ferments. in the following cases:-

1. Chronic intestinal catarrh of six months' duration in a child one year old. Marked wasting; rickets. Rapid recovery.

2. Chronic intestinal catarrh of seven months' duration in a child fifteen months old. Recovery in ten days, and rapid

increase in weight.

3. Chronic gastro-intestinal catarrh (from birth), with acute catarrhal pneumonia, in a child one year old. The peptone agreed thoroughly with this patient, and the vomiting and purging ceased. The pneumonia continued, and destroyed life by exhaustion in one month.

4. Extreme emaciation and exhaustion in a child three weeks old. Rapid recovery. One month after, during very

hot weather, cholera infantum and death.

5. Cholera infantum in a child two months old. The milk peptone was used as soon as the vomiting and purging had been checked. Rapid recovery.

The only other medication used in these cases was morphia,

to check the bowels or to meet other indications.

In numerous cases of indigestion, intestinal catarri, and other diseases in adults, I have used peptones, an I frequently with benefit.

The preparation used is the "Extractum Pancreatis" Fairchild).

The following formula is used, and the chemist is directed to furnish a scoop holding a scruple of the powder:

Extractum pancreatis (Fairchild) 5j. Sodii bicarbonatis Зііј.

M. et Sig. Add scoopful to a gill of water: mix with pint of fresh milk; keep this mixture at a temperature of 110° for two hours. Boil, place while hot in bottles, and keep on ice.

In the absence of a thermometer, the mother is directed to keep the milk so hot that she can barely hold some in the mouth.

The bottles used are beer-bottles, with patent air-tight rubber tops.

If the milk is to be used immediately, it is not necessary to boil and bottle it; but, if kept, it soon spoils.

Milk thus prepared has a bitter taste.

The directions for use are the same as those for ordinary

The manufacturers supply a pamphlet containing much valuable information on this subject.

280 East Cumberland Street.

^{*} Reprinted from AM. JOURNAL OF ORSTETRICS.

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Peptonised Milk in

GASTRIC AND INTESTINAL DISORDERS.

BY FRANK MORRISON, M.D.

My attention was first directed to the use of pancreatised fluids, chiefly milk, in the above-mentioned disorders, a few months since, while serving as one of the physicians to the Orphans' Asylum. At this institution the rule has been heretofore, as the matron informed me, for almost all of the bottle-fed infants to die within a few months, and often a few weeks, after admission from the digestive troubles incident to their unnatural mode of life. Up to within a short time this mortality has not been in any degree lessened by any of the various methods of treatment employed. To my predecessor, Dr. Henthorne, belongs all of whatever credit may be due for the introduction and use of the peptonised milk. Its benefit was at once apparent in the sudden reduction of the death-rate, so that it soon became the rule for infants to live, instead of to die. Upon assuming my duties at the asylum, I directed the continuation of Dr. Henthorne's plan of treatment, and extended it to embrace other conditions Without a wearisome recital of the details of all the cases, I think I am justified in coming to the following conclusions :-

First, that peptonised milk is one of the best, if not the best, remedy for vomiting, whether coming from simple irritability of the stomech from some obscure cause, from a firm coagulation of the casein of the ingested milk, or, what may seem strange, even in inflammatory diseases of the stomach. As examples of the first class, I would bring forward those cases in which, in the absence of any sign of gastric inflammation, all substances taken into the stomach are immediately returned, and often with considerable force. Among infant's comparatively few cases of this description came under notice, but a considerable number were seen among children and adults recovering from acute diseases. In but one instance did it fail to relieve—the first ease under my care—and that I lay to the northlessness of the samples of panereatin then on hand. I trusted too implicitly in the knowledge of the nurse, who informed me that she had used it extensively, and that it was working all right (referring to the action of the pancreatin on the milk). I was present during one of the spells of vomiting a few days before the infant's death, and noticed some coagula in the vomited matter. This led to investigation,* and an immediate change in the sample employed, but, though relief was obtained for a few hours, the child died next day with a return of the trouble. As a most peculiar instance of its power, I may mention a case seen by me in connection with a physician a few miles out of town. The patient, a lady in the neighbourhood, fifty years of age, was seized with incessant vomiting, coming on after a slight surgical operation, and resisting all of the usual remedies, but yielding immediately and almost completely to the milk. After the death of the sufferer, which occurred from another cause, a post-mortem showed adhesion of the lower margin of the omentum to the left crural ring, at which point there had been a femoral hernia during life. The stomach had been displaced somewhat downward by this band, which was drawn so tightly as to encroach very materially upon the calibre of the transverse colon. I can offer no explanation of its mode of action in the foregoing cases. It could not have been by rendering the milk bland and unirritating alone, as in some of the cases it was impossible to retain even pure water. The second class—viz., those suffering from coagulation of the casein of the milk, and subsequent vomiting-were by far the most numerous, and the part played by the pancreatin in their relief was obvious. While I cannot speak of it too highly in the previous class, it is in these that we would expect to find it

most efficacious. I will not take the time to quote a list of cases familiar to all, but will say that where, in bottle-fed infants, the milk is rejected in a curdled condition some time after being taken, the addition of a good article of pancreatin to the milk will almost invariably relieve. In inflammation of the stomach, my experience, from the very nature of the case, must amount to nothing. instances came under notice. One, a man of forty-one years of age, had been sick with vomiting and burning pain in the stomach for several days. Nothing could be retained. Water, for which he craved incessantly, was swallowed only to be immediately vomited. Burning pain and tenderness in the epigastric region, the character of the vomiting, rise of temperature, and condition of the pulse, warranted, I think, my diagnosis of acute gastritis. After trying all the remedies of which I knew, such as ice, morphia, bismuth, alkalies, and the now fashionable infinitesimal doses of calomel, without effect, I fell back upon the use of the peptonised milk, solely for the relief of the vomiting. Its effect was complete and immediate. In another, which I was led to diagnose as gastric ulcer, the result was equally good. In the various diarrheas of infants, both inflammatory and non-inflammatory, it has given great satisfaction. So thoroughly am I convinced of its power that I feel as if I could check a diarrhoea with bismuth and peptonised milk as with the most approved doses of opium. In fact, since its introduction into the asylum, not a drop of paregoric or a particle of any astringent has to my knowledge been used in the treatment of infantile diarrheas or colics. In those cases of sudden cramps coming on immediately after eating, and followed by a free liquid evacuation, it has only to be tried to be recommended. In one rather numerous class of patients, on the other hand, it has been perfectly useless. I allude to that slow wasting away of the body, without diarrhoa, or any decided symptom, coming on in hand-raised children. One death occurred, and another is at the present time failing, so that, warned by previous experience, I am led to give an unfavourable prognosis. *

PEPTONISED MILK AS A CURATIVE AGENT

IN

Acute Dyspepsia.*

BY JOHN W. BRANNAN, A.B., M.D., OF COLORADO SPRINGS, COLORADO.

Physicians are often baffled and discouraged in attempting to treat a stomach so disordered as to be absolutely intolerant of all food. The various drugs known as digestives are tried in turn, and the most easily assimilable food is given. Milk in small quantities, either alone or with the addition of lime-water, is often well borne, and in such cases a favourable result is merely a question of time. But in other cases the stomach, incapable of performing its functions, demands not simply digestible food, but food

already digested. Milk, by the process I am about to describe, can be digested sufficiently in one hour, or even less, to be readily taken up by the absorbent vessels of the body. Its taste, when thus prepared, is not at all disagreeable. Moreover, milk contains all the proximate principles necessary to the complete nutrition of the body, Of these principles, the sugar, water, and saline matters are already in a state fit for absorption. Milksugar, though not absolutely identical with grape-sugar, is closely allied to it, and, according to Pavy, behaves precisely like it in the alimentary canal. We have left then the casein and butter of the milk, the former to be converted into albuminose or peptone, the latter to be emulsified. The pancreatic juice is the only ferment in the body which combines the properties of changing albuminoids into peptones, starch into sugar, and of emulsifying fats. the Extractum Pancreatis of Fairchild is the preparation I have employed in the following manner: - Five grains of Extractum Pancreatis and 20 grains of bicarbonate of soda are dissolved in 4 oz. of tepid water.

^{*} We urge upon physicians the importance of writing for "Extractum Pancreatis" (Fairchild) when they desire to use a reliable preparation of the pancreas ferments. The necessity for this is illustrated by the case cited by Dr. Morrison. Most of the "pancreatins" of the market are composed of over 90 per cent, of milk sugar—hence devoid of activity for digesting starch or albumens, easein, &e.; indeed, they claim only to possess the property of emulsifying fats. If the indefinite word "pancreatin" is used, there is liability of substitution or error.

^{*} Reprinted from the Boston Medical and Surgical Journal-A paper read before the El Paso County Medical Society.

this is added to 1 pint of fresh milk, warmed to the temperature of the body, and the mixture is allowed to digest for about one hour at a temperature of 100° F. The milk, when eady, should have a slightly bitter taste, or, rather, afteraste. It is now raised to the boiling-point, strained, and alaeed on ice, ready for use. In my experiments I found that he easein of the milk was not completely peptonised, nor the at entirely emulsified, until the digestion had proceeded for we hours or more. But the milk becomes very bitter and lisagreeable to the taste after such prolonged digestion, and a practice one hour's digestion seems to give the best results. As will be seen from the cases detailed below, this length of time suffices to render the milk casy of assimilation.

Case 1.—E. A—, a child of nine years of age, is not very strong, but has a fair digestion, as a rule, though with a tendency to constipation. In consequence of a succession of colds, the child's strength became much reduced, and at the time of my first visit subacute, passing into acute, dyspepsia had developed. The symptoms were nausea and vomiting, and epigastric pain on taking food. After trying a very simple diet and various digestives without good effect, peptonised milk was given as the sole food. All dyspeptic symptoms ceased at once, and after two days of this diet other articles of food were, one by one, permitted to be eaten, and were well borne. In five days from the beginning of the attack the child's digestion was apparently perfectly restored, though she had not yet recovered her usual strength. There was marked constipation in this case, which was relieved by seidlitz powders.

CASE 2 is that of Miss B _____, a young woman of twentytwo, far advanced in consumption. Her digestion has always been rather weak. On February 10, 1883, the patient complained of occasional nausea and vomiting, and also of a troublesome diarrhoa. The vomiting was cheeked for some time by milk and lime-water, and the diarrhoea controlled by lead and opium. On February 23 the vomiting grew much worse; pepsine, lactopeptine, ingluvin, &c., were all tried, but to no purpose. At the same time the diarrhoa became almost uncontrollable, there being six or eight loose dejections daily. The stomach rejected all food, even of the simplest nature. Peptonised milk was now given, and was well borne by the stomach for two days, though the taste of the milk was disagreeable to the patient. There was no diarrhea during these two days, although no astringent medicines were used. As the patient now began to have a strong repugnance to the peptonised milk, it was discontinued, and a return to ordinary food was gradually made. During the month following her digestion remained very good, and but little medicine was required for the bowels. On March 21 there was again a little vomiting, accompanied with quite severe diarrhea. Peptonised milk was at once ordered, but mutton and chicken broths were also allowed. The diarrhoea was cheeked with chalk and laudanum. Again the stomach responded to the milk treatment, though I had but little hope that it would. At the present time the patient's digestion remains fairly good, in spite of the steady advance of the disease in her lungs.

CASE 3.—On March 1, 1883, I was called to Mrs. Clady two months along in her second pregnancy. Her digestion had never been very strong. She was now suffering Her from almost constant nausea, which for a time was controlled by lactopeptine and ingluvin, and a eareful regulation of the diet. After a time these remedies failed of effect, and all kinds of food were vomited, though the patient maintained the recumbent position constantly. Previous to the advent of the nausea the patient had been taking six or seven glasses of ordinary milk daily, but now she could not bear even a very small quantity, having a great distaste to it. Peptonised milk was now given, to the exclusion of all other forms of nourishment. The vomiting ceased almost immediately, and after a day or two there was no more nausea. Rest in bed was still maintained for three days; the patient was then able to get up and go about with no further dyspeptic symptoms. After five days of peptonised milk diet, raw beefsteak was given once daily, and in a few days more the peptonised milk was given up entirely. There has been no return of the dyspepsia. She considers her digestion to be better now than it has been for years.

As bearing upon the question of the rapidity of absorption of peptonised milk, it may be well to note one incident in the history of this case. On the first day of the milk treatment the patient had left her bed for some reason twenty minutes after taking a full glass of the prepared milk. The movement was followed by the vomiting of about a table-spo nful of greenish fluid. There was not a trace in it of the milk so recently swallowed. According to physiologists, two hours is the time taken by ordinary milk in digestion.

There are a few points to which I shall refer briefly in closing.

It is essential that the physician in charge, or at least someone more intelligent than the ordinary servant, should

superintend the first preparation of the milk.

Though I have dwelt especially upon the utility of peptonised milk in acute dyspepsia, I am convinced that it would also be of service in many cases of chronic dyspepsia. The patient in Case 3 had been a sufferer from greater or less dyspepsia for years. Less than one week of peptonised milk diet not only relieved all her acute symptoms, but also improved her digestion to such an extent that she can now cat and assimilate all kinds of fcod.

From its readiness of absorption reptonised milk ought to be well fitted for rectal injection. When used for this purpose its digestion might with advantage be carried much

further than when prepared for the stomach.

NOTES ON Peptonised Milk.

We beg to offer a few practical points in regard to the employment of the pancreas ferment in the preparation of peptonised milk. These are founded upon such suggestions as have been afforded by extensive correspondence and communication with the profession upon this subject, as well as upon our own personal experience.

1st. It seems that the caseine, in what may be termed partially peptonised milk, has undergone sufficient change to adapt it for assimilation in the great majority of cases.

2nd. It is only when the milk—its caseine—has been catively converted into peptone that any bitter taste is developed; this is the flavour of the "milk peptone."

3rd. The degree of digestion is very simply regulated by

3rd. The degree of digestion is very simply regulated by the time during which the milk is subjected to the action of the Extractum Pancreatis.

4th. As a general rule, place the bottle containing the milk and the "peptonising powder" in a vessel of hot water for half an hour.

5th. Now, at the desired point of digestion, something

must be done to stop further digestive action.

6th. It is much better to use iee, or immerse the bottle in cold water, for this purpose. The cold temperature effectually suspends action of the digestive ferments, but this is permitted to be resumed when again subjected to warmth, as in the stomach.

7th. Boiling permanently stops action by killing the digestive principle, but it tends to develop a cooked and

disagreeable flavour.

FOR BOTTLE-FED INFANTS.

8th. Partially Peptonised Milk is the best, most rational substitute for woman's milk, for regular feeding to the infant; as by the action of the Extractum Pancreatis (Fairchild) the excess of caseine is overcome by conversion into peptone, and formation of hard curds thus rendered impossible.

Skill and success in this, as in every other process, come with experience. Physicians can arrange with local chemists to peptonise milk in cases where it is inconvenient for their

patients to perform the operation.

We will forward pamphlet giving explicit information upon the subject in all details, "direction slips" for the guidance of patients, and trial specimens of the Extractum Pancreatis, Peptonising Powders and Tabloids free to hospitals and members of the profession upon request.

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See "CHEMIST AND DRUGGIST," December 15th, 1874.

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eneral Post Office.

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The Pharmaceutical Society of Queensland.

The Pharmaceutical Society of New Zealand-

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A Government "Poisons Bill," under the charge of the Lord President of the Privy Council (Lord Carlingford), was put down for second reading in the House of Lords on Thursday evening last (March 12). But "some delay having occurred in printing the Bill," the second reading has been deferred till Thursday next, March 19.

MEDICINE STAMPS.

In the House of Commons, on Thursday last, the 12th inst., Dr. CAMERON, M.P., in putting a question hereon, said: I beg to ask Mr. Chancellor of the Exchequer if he has yet received from the Board of Inland Revenue those reports on the Medicine Stamp Tax, which, in the House of Commons, on August 7, he undertook to "study with care"; and, if, so what action he proposes taking in the matter.

Mr. CHILDERS said, iu reply: Yes, sir, I have considered he reports made ou the Medicine Stamp Tax by the Inland

Revenue Board, and have consulted with my noble friend the President of the Council, and I am much obliged to my honourable friend the member for Glasgow for giving me some papers on the subject. We have under consideration a Bill or Bills dealing with the question, but I cannot say whether any action will be taken during the present Session.

Mr. Warton has given notice of a motion on the subject of patent medicines for Tuesday next, March 17.

The proposed new by-laws of the Pharmaceutical Society were to have been read at the last Council meeting for the third and last time previous to submitting them to a special meeting of the Society. But the reading was postponed for a month in consequence of some questions arising as to the position of candidates who might fail at the examinations prior to the new regulations coming into force.

At the Minor examination in London in February there were 113 candidates, of whom 41 passed.

Dr. Hugo Müller, F.R.S., is nominated as President of the Chemical Society for the ensuing year.

The Council of the Pharmaceutical Society of Ireland have issued a circular inviting pharmacists and apothecaries to take shares in a "more or less speculative" enterprise, namely, the establishment of a school of pharmacy in Dublin. They estimate the capital required at 1,000l.

Several legal points of interest have come forward. A transfer agent sued a chemist to whom he had given some particulars of a business for sale for commission on the amount the latter had paid for it. The agent's order to view contained a stipulation which, he contended, created such liability, but the purchaser's receipt of that "order to view" was disputed. Verdict was given for the chemist.—A county court judge has decided that a firm of aërated-water makers must surrender without compensation some syphons they held bearing the trade-mark of another firm on proof being given by the latter that they always lent and did not sell their syphons.

The Board of Inland Revenue favour us with a communication respecting the sale under the medicine stamp of vinous preparations not sufficiently medicated (see page 152), and in our Correspondence section will be found items concerning the liability to stamp duty of Dutch drops and corn plasters.

The Victorian Pharmaceutical Society have met with a curious check in prosecuting offenders against their Sale of Poisons Act. They proceeded against a Chinaman for illegal sale of opium; the opium was sold in the Chinaman's shop by an assistant, but counsel for the defendant called for proof of agency, and the magistrate dismissed the case for want of sufficient evidence on that point. The Society have appealed.

Under the head of the "Chemists' Retail," on pages 132, 133, 134, are given formulæ and suggestions for putting up the following articles: -Blood-purifying Tea, Floral or Parlour Incense, Bretfeld Spirit, Cough or Pectoral Powders, Cough Syrup, Pectoral Tea, Cachous Aromatises, Perfumed Carbolic Acid, Cholera Drops, Carmin, Spirit of Pines (a disinfectant), Cosmetic Powders, and Eau de Javelle (for bleaching linen).



CONDUCTED BY RICHARD J. Moss, F.C.S.

QUALITATIVE ANALYSIS

THE subject of the next exercise in qualitative analysis is to be a mixture of salts. It is to be submitted to a thorough systematic examination, designed to detect all its constituents and to demonstrate the absence of other substances. A complete report of the analysis is to be furnished, giving a list of the metals and of the acidulous radicles detected, and distinguishing those that may be regarded as accidental impurities.

Applications for portions of the mixture will be received up to March 20, and the samples will be forwarded on the 25th.

Students' papers will be received up to April 15.

REPORTS.

The mixture of salts which formed the subject of the last exercise consisted of:—

				Parts
Silver nitrate	 ••	• •	••	1.7
Lead acetatc	 	••	••	37.9
Potassium tartrate	 • •		••	37•3
Sodium carhonate	 	• •	••	21.2

The quantities may appear strange, but it will be found that they are simple fractions of the molecular weight of each salt. The calculated composition of 100 parts of the mixture is:—

	 	• •	 ••		1.09		
	 		 		21.03		
• •	 		 		7.93		
	 		 	••	9.35		
	 		 		.63		
)2	 		 		12.00		
) _e	 		 	••	30.29		
	 		 		12.19		
	 		 		5.49		
					100 00		

The analysis of such a mixture presents several difficulties, some of which are rather too formidable for beginners to overcome. Contributors who find their names lower down in the list than they expected must not be discouraged, for, though their results may have been unsatisfactory, they have gained experience and knowledge that will lead to greater success in the future.

The total number of reports sent in was 27. Comparatively few succeeded in detecting all the constituents of the nixture. The failures are summarised in the following table:—

NO_3					••	• •	••	23
C ₂ H ₃ O								22
Ag	_							19
K		••						10
C,H,O								9
Na			**	••				5
Pb	••	••	••	••				3
CO.								2
CO_3	• •	••		••	• •	••	••	-

Each of our contributors can form an estimate of the comparative merits of his work by observing the position in this ist of the constituents that he failed to detect. It should be corne in mind that in awarding marks for analyses the supposed detection of substances not in the mixture is, of course, taken into consideration. No doubt it would interest students to learn what methods proved most successful in the detection of the constituents present in small quantity, but it is not easy to give this information, as it is not so much the particular method as the intelligence employed in the application of it that ensures success. The nitric radicle, for example, was detected by some by means of sulphuric acid and ferrous sulphate, and by others by means of sulphuric acid and copper; but for everyone who succeeded, several failed. It is therefore clearly not the method that constitutes the chief difference between good and bad work. The reports that take the best places in the list are clearly the result of careful and thoughtful work. When the analysis presents any serious difficulty, a good result is not to be obtained without exhausting every source of information. We find, accordingly, that a report ending with accurate conclusions generally begins with an exhaustive examination in the dry way. The student who does not care to take much trouble usually omits this part of the work altogether.

PRIZES

The First Prize for the best analysis has been awarded to T. S. ADAIR, 80 Osmarton Street, Derby.

The Second Prize has been awarded to E. F. MILLER, 18 Norwich Road, Ipswich.

Marks Awarded for Analyses.

	T. S. Adair (fir:	st pri	ze)		85	J. B				60
ļ	E. F. Miller (se	cond	prize)		83	W. J. Hoyten	٠.	••		60
	"Nemo"				80	"Podophyllin"	• •	••		40
I	E. W. P				80	"Oswestry"	••	••		30
ľ						T. G. J				30
ľ	"Wisp"	••	••	••	78	G. J. W				30
ı	A. W. Morvell				75	"Sus"				25
ı	W. H. Cockle				70	F. R Bower				25
ĺ	L. Ough				70	J. Hindle				25
	A. Latchmore				70	"Mel"				20
l	"Catalysis"	••			65	G. W. Harrison			٠.	20
	"Douhtful"				65	"L'Esperence"			••	20
	"Inconnu"				65	A. G				15
1	"Renrew"				65	E. S				10

TO CORRESPONDENTS.

Prizes.—The students to whom prizes are awarded are requested to write at once to the Puhlisher, naming the hook they select, and stating how they wish it forwarded.

Any scientific hook that is published at a price not greatly exceeding half-a-guinea may be taken as a first prize.

Any scientific book which is sold for about five shillings may be taken as second prize.

* All communications should include the names and addresses of the writers.

 H_{ω} S.—It is not necessary to give quantitative results. In referring to the analysis we give the composition by weight for the information of contributors who take an interest in learning what quantities they have been operating upon.

E. W. P .- Any pharmaceutical student can compete.

F. S. Rix.—Your application was quite right. A good knowledge of the work referred to ought to suffice, but such a knowledge is not to be acquired by merc reading.

A. Humphreys—When sulphuretted hydrogen is required on a small scale, and only occasionally, it is best to employ the simplest apparatus, nstead of attempting to use any of the contrivances for a continuous supply. A small flask or hottle with a bent tube attached by means of a cork generally suffices.

Wisp.—The apparent evidence of cohalt obtained in the preliminary examination is not consistent with your subsequent results. The blue of cobalt is generally very evenly diffused in the borax bead.

A. W. Morvell.—The quantity of nitric acid was so small as to make its detection, under the circumstances, difficult. The effect observed with the ferrous sulphate was due to acctic acid.

W. H. Cockle.—You gave sufficient detail of your work. It must have heen obvious that hydrochloric acid dissolved something, and that it produced a very marked change. A more extensive preliminary examination

wateralysis in th mi-Although t a residue insolubl gwazertain wha 1-Fin observed a sid offer no ex sie into consider So far as the m Millin-It is p wel and if 50, diest quantity. miry _ You oug he presence of a gi siraja well to us results quite sat IG A-There wa mater of the evol

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edicyld. genous I genous I wid have been desirable. It is a great matter in dealing with such a coplex mixture to learn all you can about it before proceeding with the spenatic analysis in the wet way.

connu.—Although the quantity of silver was small, there was far too a residue insoluble in hydrochloric acid to be passed over without that go to ascertain what it was.

B.—You observed a blackening when the powder was heated, but our in results offer no explanation of this. Your examination for acids does no take into consideration the possible presence of the common organic as. So far as the metals were concerned your work was very fair.

odophyllin.—It is probable that your supposed barium precipitate was to lead, and, if so, you must have used the preceding group reagents in difficient quantity.

swestry.—You ought to try what quantity of potassium you can detect i be presence of a given quantity of soldium by the aid of your blue glass. Is always well to use the platinic chloride test, though you may think r results quite satisfactory without it.

'. G. J.—There was clearly some great experimental error in testing the racter of the evolved gas. You should try a similar experiment with a ull quantity of a carbonate and find out the defect.

Pharmacalia.

THE ARGUMENT FOR THE CURRICULUM.

te records of our examinations are disheartening and sastrous. It would serve no good purpose to quote figures ich would apply only to some special date; the fact stands at the number of failures are out of proportion to the erage successes gained. That they are altogether out of oportion is a nearer statement of the truth.

Without discussing the broad question of examination and lucation, no one can deny that somewhere in the present stem there is a flaw, and that teaching and results are not harmony. Those best acquainted with student life will be the most willing to concede that for this condition of affairs the young men are not wholly responsible. The tares grow ith the wheat, and the dross alloys the gold, and bad undents are present with the good. Some youths come to ondon for amusement, and treat their allotted time as a ind of spree, glad to escape from a too-rigorous home disipline; others are led astray; yet a vast majority, who eare ttle, perhaps, for knowledge on its own account, are as nxious to pass and obtain official qualification as their arents and guardians can desire.

There is no fighting against the stern reality of an xamination; there it is, and those who do not pass it cannot neer upon their vocation. The regulations concerning this natter are framed in wisdom and in kindness; in wisdom, or pharmacy, which directly concerns the public health, hould not be handed over to the incompetent; in kindness, or a candidate is compelled to be so well prepared that his after success becomes a certainty.

Some there are who are born students, and to whom the very acquirement of knowledge is a delight. They would succeed under all circumstances, and attain excellence under any system. These men are few, exceptional, and outside the general subject, and we cannot expect this high standard from the average run of candidates. If we do so, we shall be disappointed, and it is vain to be always insisting on an ideal state of culture.

Dealing with hard facts, we see that at each recurring examination the results would warrant an argument either against the diligence of the eandidates or against the method of teaching employed, or against the system of examination as now pursued. Little ingenuity would be required to take a strong position in support of such an argument with regard equally to these three divisions of the subject.

The utmost forbearance and delicacy would be wanted to discuss the details, but the discussion would start from the one same point—that examination alone has not proved a satisfactory method of promoting the interests of pharmacy.

Our great London Hospital Schools are fully aware of the difficulties of the situation, and they have taken effectual measures to provide for the better training of those who commit themselves to their care.

They have an established curriculum under official authority; but, in addition to lectures and practical demonstration, the tutorial plan, not as a nominal institution, but as an energetic personal reality, is carried out. One amongst the professors, specially chosen for the purpose, makes it his business to see that each student positively understands, and is able to reproduce, what he has formally learnt in class. One individual undertakes the whole range of subjects, and adds his private explanation on all points concerned. Moreover, he supplements the public courses with a variety of minor information, which necessarily must, to a large extent, be imperfectly conveyed by the appointed lecture.

Nor does his task end here, for his counsel as to management of health and mode of study is quite as important as his more technical directions.

Secondly, a test examination is introduced preparatory to the official ordeal. The Professors unite in drawing up papers, each on his own subject, strictly in accordance with the kind of knowledge which a candidate will be compelled to show. In this manner they can judge how far a student may or may not run a chance of a successful issue, and he is advised accordingly. So personal is the matter that when a candidate is deficient they "will not sign him up," that being the correct phrase.

As we would be content to have our young men know pharmacy in the splendid way in which the modern physician knows medicine, we may be content also to copy the example of the profession in being personally interested in the welfare of our students. And for the examiners—if we may allude to such august individuals; if, in Virgilian language, it be lawful to appease the gods with words—we would ask whether they might not somewhat temper the keen edge of judgment, and on occasion make allowance when a sense of justice will permit. At this Eastertide we would venture to submit to them the old instruction—" Mind not high things, but condescend to men of low estate."

MOUNTING MICROSCOPIC SPECIMENS.

Dr. W. J. Gray informed the Microscopical Society that some years ago he tried balsam of tolu for mounting specimens, but found that it was open to objection on account of the formation of crystals. Mr. C. H. Kain, who recommended its use, has tried it again, and the slides are already full of crystals. The objection, therefore, is serious.

TOUGH FILTERING-PAPER.

Mr. E. E. H. Francis communicated a most interesting paper to the Chemical Society "On Toughened Filter-paper," which, if it fulfils the statement made concerning it, will be a great boon to operators. Filter-paper is recommended to be immersed in nitric acid, rel. den. 1-42, and to be washed with water. It is then remarkably toughened, the product being pervious to liquids, and quite different to the parchment-paper made by means of sulphuric acid. It can be washed like a piece of linen. So treated it contracts in size, and the ash is diminished, the weight is slightly reduced, and it contains no nitrogen. The toughened paper can be used with the vacuum-pump in ordinary funnels, without extra support, and fits sufficiently close to prevent undue access of air, which is not the case with parchment-paper.

An admirable way of preparing filters is also suggested: dip only the apex of the folded paper into nitric acid, and then wash with water; the weak part is thus effectually toughened.

SCIENCE TEACHING IN WALES.

The laboratories of the New University College of North Wales, at Bangor, were opened last February by Sir William Thomson, in the presence of a large and representative assembly. After an address from the Mayor and Corporation, Sir William said that there was no reason why they should not have a university for North Wales. Such a step had been frequently proposed, but it was now only that definite action had been taken towards that end. institution might be a university, or one of a number of federated colleges; the name was immaterial so long as it did the work desired. Decentralisation is one of the signs which mark our age; many years must elapse before the prestige of our two great universities will permit the successful establishment of new shrines of learning. One paramount reason exists in the memories of high scholarship, and the wonderful associations that are inseparably connected with the older foundations. But science, as apart from literature, has no local habitat, and it will flourish wherever rightly planted. It is surely time that centres should be multiplied, and they must prosper, for throughout England there are willing students and well-qualified instructors.

TOUGHENED GLASS.

Mr. Frederick Siemens, at the Society of Arts, has severely criticised the invention by M. De la Bastie, called "toughened glass." It bade fair at one time to come into extensive use for chemical and dispensing purposes.

The author stated in his paper on what he terms "Tempered Glass" that the French process was not a real manufacturing process, but an addition to known methods of glass making. Articles had to be annealed first, and thereafter to be heated to such a degree as to render them soft; they were then immersed in a bath of heated oil maintained at a temperature of from 350° to 400° C. without evaporation. Articles so prepared were liable to burst suddenly into small fragments, either spontaneously or by sudden shock.

The author's own process consists in cooling the glass, not in proportion to its surface, but to its volume or capacity for heat. A sheet of glass of uniform thickness, having been heated uniformly to a sufficient degree, must be cooled on the surfaces of its two parallel sides, leaving the edges uncooled. The manufacture of hard glass depends, therefore, on the principle of uniform heating and cooling. The author has now made hardened glass at the Dresdon Glassworks for six years; the output has steadily increased more than 50 per cent. annually, from 600% value in the first year, until last year it amounted to over 7,000%.

Manufacturing details were subjoined, and specimens of finished work submitted for examination.

SHAKE BEFORE TAKING.—A correspondent from Coshocton, Ohio, sends us the following:—

Doctor-"Well, how is your ague now?"

Patient—"Worse and worse. I've had the shakes awfully every day."

"I can't understand that. Did you take the medicine I prescribed?"

"Yes, but it did no good. Do you know, doctor, I think that medicine might do good if I took it before the shakes come on instead of after."

"Why, of course; that is what I directed."

"It did not say so on the bottle."

"Consam those druggists! What was on the bottle?"

"Shake before taking."

The Pharmacentical Council.

THE monthly meeting of the Pharmaceutical Council was held on March 4, Mr. Michael Carteighe, President, in the chair. The members of Council absent were Messrs. Bottle, Woolley, and Young.

THE CONVERSAZIONE.

The President read a letter from the authorities of the South Kensington Museum intimating that, under certain regulations, the Museum would be lent for the usual conversazione in May.

THE CONGRESS AND THE CONFERENCE.

The PRESIDENT explained that the Executive of the Pharmaceutical Conference had found it impossible to change the date of their meeting at Aberdeen, and referred to a communication from the Secretary of the Brussels Congress of similar purport to one which we quote from elsewhere. With a little activity and smartness, he said it would be quite possible to attend both gatherings. Mr. Butt said a steamer leaves Antwerp every Saturday for Leith, and the Vice-President hoped full information as to means of transit would be published in good time.

RESTORED TO THE REGISTER.

Edwin Price, Union Street, Dowlais.
Stephen Nobbs Stevens, 3 St. Pcter's Road, Great Yarmouth.

ADDED TO THE REGISTER.

Henry Allen, 34 Delorme Street, Fulham, London, S.W. Samuel Robinson, 401 Alfreton Road, Nottingham.

THE NEW BY-LAWS,

On this occasion it was proposed to read the new by-laws for the third and last time by the Council, but some questions having been raised as to the case of candidates who might fail to pass prior to the new regulations coming into force, it was resolved to postpone the third reading for a month in order to take time for consideration.

INVESTMENTS.

The Finance Committee reported that it had been arranged to purchase two properties which would yield nearly 4 per cent. on the outlay. Their report was adopted.

BENEVOLENT FUND.

The grants recommended by the Committee were as follows:—One of 15*l*, to the widow (aged 37) of a member and subscriber; one of 10*l*, to the widow of a member (aged 51): one of 10*l*, to a former member suffering from chronic illness who had had ten previous grants of like amount; and one of 10*l*, to the widow of a registered chemist and druggist who had had five previous grants. Two applications had been adjourned for further inquiries. These recommendations were agreed to.

Mr. Butt brought forward a few statistics concerning the

Mr. Butt brought forward a few statistics concerning the relief granted, showing that during the past year the Committee had considered 64 cases, 33 old ones, and 31 new ones. Of these 20 were from members or their widows, and 41 from persons who had not been connected with the Society. He said the proportion of those applying who were not connected with the Society, and the relief they received, was about 2 to 1.

Several members hoped these facts would encourage subscriptions from persons outside the Society. Mr. Williams said it was gratifying that so few persons connected with the Society had been obliged to apply for assistance, which had been mainly afforded to their brethren in the trade who were perhaps not as well off as those who joined the Society.

A letter was read from Mr. Frederick Barron, 10 Cambridge Terrace, Regent's Park, enclosing a cheque for 265 guineas to the Benevolent Fund, which, with his previous donators, raised the total amount of his gifts to 300 guineas. Mr. Barron added, "I am satisfied that much good is being done by the Fund, and I trust that it will continue to be well supported by the trade generally."

pecial vote of thanks was passed to Mr. Barron for his handsome donation.

THE MUSEUM.

e following gifts to the museum were reported by the Li ury, Museum, &c., Committee:—

ecimens of spurious cubebs (Daphnidium cubeba), from Irs. Wright, Layman & Umney, Messrs T. Christy & Co.,

Messrs. Harker, Stagg & Moss.

ecimens of cocaine, and of the citrate, hydrochlorate, poromide, and salicylate of the same alkaloid, from Mr. erck.

living specimen of the aloe yielding Cape aloes at Bethels-

de, from Messrs. B. G. Lennon & Co. ecimen of cinchonamine bark and bark of *Treehlospermum*

ci orium, from Messrs. T. Christy & Co.
ecimen of the Chinese insect-wax in situ on a twig of
frinus chinensis, and candles corted with the insect-wax
hina; also a dried specimen in fruit of Ligustrum
tum, for the herbarium, from the Director, Royal Gardens,

becimen of pituri in the form used by the natives of Vustralia; fruit and seeds of Sterculia quadrifida; leaves as seeds of Eucalyptus Stiegeriana, from Mr. F. M. Bailey, S., Colonial Botanist, Brisbane.

ecimen of hæmatein-ammonia, from Mr. W. H. Incc.

THE FEBRUARY EXAMINATIONS.

report was submitted showing that at the examinations to February 18 to 26, out of 15 candidates for the Major 7 pt ed, while out of 113 candidates for the Minor 41 passed.

THE ANNUAL MEETING

w fixed for May 20, and the annual report was entrusted the Library Committee.

RESIGNATION OF AN EXAMINER.

letter was read from Mr. Charles Ekin, tendering his a gnation as a member of the Board of Examiners. A resonexpressing high appreciation of his services was passed nimously.

THE CURRICULUM.

resolution was sent in from the Liverpool Chemists' Trade A ociation, passed at a meeting of the committee on Fruary 26:—"That whilst approving of the alteration in ty-laws, it is the opinion of this meeting that the number olectures and the laboratory practice required in the possed curriculum are greater than absolutely necessary."

Pharmaceutical Society of Freland.

HE monthly meeting of the Council was held on March 4.

Present, the President, Mr. J. E. Brunker, M.A., in the air; Mr. H. N. Draper, the vice-president; Dr. Collins,

Montgomery, Messrs. Hodgson, Grindley, and Hayes.

A letter was received from Mr. Charles Marshall, 49 Dawson cet, Dublin, asking leave to present himself for the final amination under exceptional circumstances. The applican was rejected as being opposed to the by-laws of the ciety.

On the motion of Dr. Collins, seconded by Mr. Grindley,

e standing orders were suspended, and

Mr. HAYES proposed, and Dr. MONTGOMERY seconded, a solution that the present examiners of the Society—namely, r. John W. Moore, Dr. George F. Duffey, Professor Edmund Davy, and Mr. Charles Evans, M.P.S.I.—be re-elected for e remainder of the present year up to November 3.

The President reported that the Education Committee, whom the question of the proposed establishment of a shool of Pharmacy in connection with the Society had been aftered, had met and agreed to a circular which had been not to all the licentiates of the Society. He (the President) esired to correct an inaccurate statement which he made at the last monthly meeting of the Council. On that occasion e said that the School of Pharmacy at Bloomsbury Square and no connection with the Pharmaceutical Society of Great

Britain. He had learned that that school was under the control of its Council, by whom the Professors were appointed, and a sum of 100% a year out of its funds was paid to endow each chair.

The following is the circular referred to by the President:--

Pharmaceutical Society of Ireland,

11 Harcourt Street, February 17, 1885.

DEAR SIR,--Representations have been made to the Council of the Pharmaceutical Society by licentiates of that body, as well as by young men who intend presenting themselves for its examination, as to the advisability of forming a School of Pharmacy in connection with the Society. The Conucil warmly sympathise with such a scheme, but have no funds available for the purpose of starting it; and, even if they had such funds at their disposal, would not feel themselves justified in investing them in what must be, more or less, a speculative project. It has, therefore, been suggested to form a limited liability company, with a eapital of 1,000%, in 200 5%, shares, and a committee has been appointed tobring the matter under the notice of the pharmaeists and apothecaries of Ircland, with a view to enlisting their sympathy with and support of the project. There is no doubt that such a school, in which evening instruction would be given at moderate charges in practical chemistry and materia medica, would supply a want much felt; and it is thought that its prestige as being intimately connected with the Society would induce a considerable number of students to resort to it. I shall be obliged by your informing me whether you will be disposed to co-operate in this usoful I am, dear sir, faithfully yours,

J. E. BRUNKER,

President Pharmaceutical Society of Irchaud.

A donation was received from the Pharmacy Board of Victoria of a copy of their Pharmaceutical Register for 1884. Some financial business having been disposed of, the Council adjourned.

Probincial Reports.

BIRMINGHAM.

Notes written for The Chemist and Druggist.

MR. II. BOUCHER, for nine years employed in the warehouses of Messrs. Southall Brothers and Barclay, has been appointed representative for Birmingham and surrounding districts for Messrs. Lofthouse & Saltmer, wholesale druggists, drysalters, and sundrymen, Hull.

A chemist with a business in a poor but populous neighbourhood informs us that during the last five years he has sold over the counter upwards of 12,000 pink powders for infants teething and children's ailments. They are retailed 1d. each, or three for 2d.

The following sub-leader appeared in the columns of a local daily paper:—"Bankruptcy without Shame.—The public examination of George Hull, drysalter and druggist, of 77 Smallbrook Street, heard before the Registrar of the Birmingham County Court, yesterday (February 13), revealed circumstances in connection with the bankrupt's affairs which must have excited the pity of his heaviest creditor-He had been in business for nearly forty years, and during that time had never had a writ or anything of the kind issued against him. On the contrary, his business flourished, and he was accumulating capital until he was induced to advance 7,200l. to enable a son-in-law to become a partner in an ironworks. This is the story of scores of bankruptcies in Birmingham, where, more than in any other town, men seem to be actuated by goodness of heart rather than by coolness of head. The creditors were so well satisfied with Mr. Hull's straightforward conduct and reputation that they unhesitatingly accepted 6s. in the pound, and they will no doubt join us in hoping that this Birmingham tradesman of the good old type will live long enough to retrieve his fortunes. May we never have to record a bankruptcy in which the debtor has less cause to feel ashamed!"

The recent visit of Professor Redwood to this town was the occasion of a pleasing incident. When the secretary of the Association went to pay the hotel expenses, &c., incurred Le was surprised to be told they were all paid; also, when a cheque was forwarded to the Professor for his railway expenses, it was returned with a very kind letter. Interest

in the newly-formed Association could not have been more thoughtfully and practically shown.

It is rumoured that a wholesale chemist, well known in this district and the Midlands, and an active officer in connection with the Chemists' Trade Association, contemplates disposing of his business and retiring into private life. The name of a chemist who has lately come into the town is mentioned as probably being one of the successors.

On the night of February 14 the premises of Mr. Hedges, chemist, 13 Dale End, were broken into. Fortunately the money had been taken from the shop. Very few articles seemed to have been removed, although the burglars were undisturbed by the police and got clear away. Mr. Hedges was the first chemist in the town that started opposition to the stores when they first made their unwelcome appearance here. His business increasing his shop was enlarged to make room for customers. "Hedges" is as well known in the town and district as "Hodder," of Bristol; "Lewis," of Manchester, or "Wand," of Leicester.

Whilst transacting business with a chemist in the town I was witness to a most curious and unexpected experiment. A customer came into his shop and asked for three-pennyworth of white arsenic, two-pennyworth of chloride of lime, and two-pennyworth of soft soap. The lime and arsenic to be mixed together, so that half could be used for one room and the remainder for another room, for the purpose of ridding them of fleas. The customer would call again in about ten The chemist mixed 4 oz. arsenic and 6 oz. of lime with an old steel knife on a piece of common paper, labelled it poison, and placed it aside. After a few minutes a slight report, with a violent effervescing noise, was heard in the vicinity of the parcel, and immediately the shop was filled with a dense greyish-white smoke of the most choking and irritating properties, which made us withdraw for a breath of fresh air; as soon as possible a large thick duster was thrown over the parcel, it was carried out to the back, and some water thrown upon it, which at once killed it. It was some minutes before the shop was cleared of smoke, and we were able to stay in it. Text-books are silent on such a mixture. Whether it was a case of chemical affinity or combustion, perhaps some of your analytical competitors may be able to inform us. In mixing a fresh lot the arsenic was mixed with the soap and the lime put by itself.

Chemists of Birmingham and surrounding districts say they want a good local drug-sundry house, any special or out-of-the-way article not being obtainable here, and having to be procured from London or Liverpool. The delay in waiting before it is to hand is a very serious inconvenience, as the article required is generally urgently wanted. Old chemists here will remember "Atlee," of Broad Street, who, having obtained a patent for a special kind of tap, disposed of his small sundry business to Mr. Thonger, who at that time had brought out a precautionary poison label, which not being well taken up the sundry part was sold under the We have the sons of the late Mr. R. Tomlinson, St. Paul's Square, but they are more general shopfitters than druggists' sundriesmen. Pare Brothers, late of Burlington Passage, were the next in the field, but the retiring modesty of the active partner, Mr. H. B. Pare, and his dislike of personally soliciting orders were so well known, that ultimate success could not be expected. Bayly, of Macdonald Street, the introducer of carded goods, notably his penny dyes, which were "household words," was well known in the Midlands, and but for an unfortunate occurrence would have been as well known now. Of recent years we may mention the Brothers Woolf, but surgical instruments and such like they do not stock. Miss M. J. Nicholson, who succeeded G. W Bayly, did not meet the needs of chemists. Evans, Sons' & Co., of Liverpool, have a sample-room here, of some sundries, especially of their own proprietary goods. But there seems to be an opening for one of the large sundry houses to keep a good general stock.

PRESENTATION TO A LOCAL CHEMIST.—On the 3rd inst. the newly-erected parish offices were formally declared open by the chairman of the Board of Guardians (Mr. W. Price, pharmaceutical chemist, Bromsgrove Street) in the presence of a considerable number of residents. Mr. Stout, on behalf of the Building Committee, the architect, and the builders, presented to Mr. Price as a souvenir of the occasion a heavy

gold and silver key, on one side of which was a represent; in enamel of the Borough Arms, and on the reverse a figuof Charity, in relief, on gold.

Mr. C. J. Woodward, of the Birmingham and Midd Institute, writes to contradict the report mentioned in column last month to the effect that he was about to special classes for chemists' assistants. The Institute says, is always open for students, and its chemical clainclude many chemists' assistants. "If an extension of classes in any special direction were desired by the phaneists of the town, I am sure the Council would gladly sider any suggestions offered, but, as for 'competition opposition,' such an idea is foreign to the traditions of Birmingham and Midland Institute."

Mr. Woodward adds :-

"I may, perhaps, here be allowed to say where I feel difficulty in reference to a high standard of scientific edu tion for chemists' assistants. It is simply the want of ti To go through the excellent course of instruction sugges by Professor Redwood in his recent address demands amount of time which cannot be given so long as chemi shops are kept open ten or twelve hours a day. It is m remarkable and gratifying to find in many cases how students have overcome difficulties in the way of attenda at the classes; but because it is possible for a few to ov come difficulties in their career it is not fair to impose th difficulties on the many. One of the first reforms wanted secure chemists' assistants with the scientific qualification proposed by Professor Redwood is to reduce the ho assistants are required behind the counter. If it were ma compulsory upon the master apothecary under penalty of c qualification to release his assistants, say at 6.30 or ev 7 o'clock, the opportunities which offer in all large towns evening instruction would be available, and, as I belief would be fully used."

DUBLIN.

Special Correspondence.

A LIMITED LIABILITY SCHOOL OF PHARMACY. - A C cular has been issued by the President of the Pharmaceutic Society of Ireland to the pharmacists and apothecaries Ireland, suggesting and calling for support in the formati of a limited liability company for the purpose of establishing a School of Pharmacy in connection with the Society. The step is stated to have been suggested by the licentiates that body as well as by young men who intend present themselves for its examination. The Council warmly symp thise with the scheme, but have no funds available for such purpose, and if they had funds they would not feel ther selves justified in investing them in what must be a "more" less" speculative undertaking. The capital proposed for the undertaking is put down at 1,000%, in 200 5%, shares. The President is of opinion that such a school, in which evening instruction would be given at moderate charges in practical chemistry and materia medica (botany is not mentioned would supply a much-felt want, and that the fact of its bein connected with the Society (that is, having the warm sym pathy of the Council) would add to its prestige, and induc a considerable number of students to resort to it. It is no stated whether the Council intend allowing the use of their premises, utensils, &c., for the "more or less speculative" ject. The selection of professors and arrangement of fee are matters for future consideration.

DESTRUCTIVE FIRE IN A MEDICAL ESTABLISHMENT.—Early on the morning of March 6 a fire of a destructive character occurred at the establishment of Mr. J. J. Harrison Licentiate of the Apothecaries' Hall, Dublin. Owing to timely warning by a passer-by the inmates (eleven in number escaped in their night-dresses. The fire-brigade were quickly on the spot. It is supposed that some embers left in the fire grate caused the fire. A more complete gutting cannot be imagined; the only stock not destroyed were the bottles containing nitric acid and hydrochloric acid. Scarcely a vestige of the fittings remained. Mr. Harrison, unfortunately, was not insured. He estimates his damage at 250%. The premises were insured by the landlord; beyond the woodwork, however, there is not much damage done.

AN HER FIRE occurred in Dublin on the 7th inst., at the rug ablishment of Mr. William Gore, 172 Thomas Street, bubl The fire originated in the oil and colour department thend of the shop, where was stored a considerable unty of petroleum and paraffin and other oils, paints, and the oils of an inflammable nature. For a considerable ime a flames raged with great fierceness. The fire brigade as ckly on the spot, and by dint of much hard work predicts spreading to the adjoining buildings. The entire list spreading to the adjoining buildings. The entire of loss is fully eovered by insurance.

NG the week ending February 28 twenty-one cattle, are 2881., affected by pleuro-pneumonia, were destroyed Dlin. Compensation to the amount of 2161. was

EDINBURGH.

If JOHN R. HILL has been appointed apothecary and of pharmacy to the Edinburgh Royal Dispensary. I's abilities as a practical pharmacist are well known, i recent article on "How to Study Materia Medica" of the success as a teacher.

EXETER.

UIDE OF AN EXETER CHEMIST.—Mr. Hooper, coroner E ter, investigated on March 11 the circumstances attendt death of John Joseph Blackmore, a chemist, who for years past has earried on business in Fore Street, and whose death occurred on the previous day. Acd; to the evidence, for some time past the deceased had tel from nervous depression. He had also been physi-llyzeak, though not recently under medical treatment. st immer he was attended by Dr. Budd, and at that time fering from an acute state of mania resulting from an dulgence in alcohol. He was exceedingly nervous and p ding, but his tendencies were then of a homicidal hethan a suicidal character. It was found necessary to communder constant surveillance. On Monday night last w more than usually depressed, and complained during y of a pain in his head. On Tuesday morning his wife and ed that he looked very ill, and on returning to him er few minutes' absence observed that there was someriously wrong with him. A neighbour was called in d me brandy poured into his throat, but he gradually lost singth and died in a few minutes. In the course of a st ortem examination the doctor found strong traces of acid, and there was no room to doubt that death had er aused by poisoning. Subsequent investigation in the oped to the discovery that a bottle of prussic acid had that oring been opened, and about two drachms of the liquid from it. For some months the deceased had been a bstainer, and in Dr. Budd's opinion the result of the ol he had taken last summer might have affected his al and produced the low state of mind of which he had muined.—After hearing the evidence the jury returned a ent of "Suicide whilst in a state of temporary insanity."

LANDPORT.

(DITION OF TRADE.—A correspondent sends us the ling:—There is a general complaint of bad trade and being cut down. I notice one chemist goes in for boulbs, seeds, &c., and seems to be doing a good trade it line; but the chief sign of the times is the addition inmongery and brooms and brushes to the business treat chemists. One gentleman (a pharmaceutical st) has four or five shops, at each of which ironsers, door-mats, brushes, lamps, &c., as well as oils colours, are dispensed on one side, while experienced and also dispense prescriptions at the opposite counter. Scialty seems to be a box of seidlitz powders (Howard's late) for sixpence. Another chemist is, no doubt, and ig a fortune by retailing windowfuls of sixpenny feeding-tot is for threepence, and a dispensing chemist in a good city bourhood goes in for photographs of celebrities, cheap

magnifying-glasses, electric appliances, and a good show of curling-paper, cheap. If the pharmaceutical chemist has to eke out a living by selling ironmongery, &c., what a satiro it is on the demand for increased education!

LIVERPOOL.

Special Correspondence

I HAVE to commence my report again this month with the announcement of another burglary upon a wholesale firm in the City. On the night of the 6th inst., the premises of Messrs. Clay, Dod & Co., at 52 St. Anne Street, were broken into by burglars, who effected an entrance through a skylight in the roof, and thence made their way into the warehouses and offices. The latter they carefully ransacked, breaking open every drawer; fortunately they were but poorly rewarded for their labour, as they were only able to find a few pounds in the petty-cash keeper's desk. Strange to say they left intact the large stocks of quinine, morphia, musk, otto, and other valuable drugs to which they had gained a free access.

It is to be hoped that by publishing this as well as the account of the similar attempt last month upon Messrs. Evans, Sons & Co.'s premises, which it will be noticed was carried out in precisely the same manner and with a like result, other wholesale firms will be put upon their guard.

Last month I had to regret the utter indifference of the trade at large in this city upon the Education question; since then, however, Liverpool has bestirred itself somewhat. The Liverpool Chemists' Association were first in the field with a very able paper from Dr. Symes; then followed the Liverpool Trade Association with a special meeting of the committee held on the 26th ult., to consider the new by-laws. At neither of these meetings do the supporters of the new curriculum appear to have had it all their own way, for at the first, although no resolution was taken (it being a paper read), Mr. J. S. Ward, in proposing a vote of thanks to Dr. Symes, criticised the syllabus of the proposed curriculum, contending that it was far more severe than there is any real necessity for, further that there is much contained therein that the chemist and druggist cannot possibly make use of in the ordinary routine of his business, and consequently that it was unwise to thus voluntarily impose an extra burden upon ourselves, for which there is no necessity, and which will be of no special benefit to any one.

At the other meeting, the following resolution, which is much to the same effect, was proposed and carried, viz.:-"That whilst approving of the alteration in the by-laws,

"That whilst approving of the alteration in the by-laws, it is the opinion of this meeting that the number of lectures and the laboratory practice required in the proposed curriculum are greater than absolutely necessary."

I notice in the *British Medical Journal* of the 28th ult., that Mr. Jas. P. Hocken, son of Mr. Hocken, chemist, of Old Hall Street, and secretary to the Liverpool Chemists' Trade Association, was successful in passing the final examination for the L.S.A. degree, February 19. Mr. Hocken was a student at Charing Cross Hospital.

During the past month two deaths have occurred among Liverpool chemists, viz., on the 26th ult., of Mr. Francis J. Barnes, who was a son of the late Mr. Barnes, of Preston, and was for several years in business for himself in Upper Parliament Street, in this city—he died at the early age of thirty-four years, and has left a widow and two children; and, on the 14th ult., of Mr. Bamford, who was the second son of the late Mr. Bamford, surgeon, of Chorley, and for many years assistant with Mr. Flint, of the Adelphi Pharmacy, by whom he was very highly esteemed. He died at about the age of forty years, after a very short illness, and has left a widow and three children.

During the past month vegetation has made considerable progress; this is made especially evident by a visit to the Liverpool Botanic Gardens, where are to be seen the following plants in bloom, all of which represent respectively some of the natural orders included in the "curriculum" of a pharmaceutical education, viz.:—Daphne mezereum, N.O. Thymelacea, with its groups of (two or three) sessile purple flowers, which open before the leaf buds, although the latter are developed before the flowering is over; Crocus lutea and other

species, N. O. Iridaceæ, about which the trifid-tubular stigmas should be noticed, as they convey a very good idea of the appearance "saffron" (the stigma and top of the style of crocus sativa) should present when placed in water; Galanthus nivalis with its keeled leaves and solitary drooping flowers, N. O. Amaryllidaceæ; Scilla bifolia, N. O. Liliaceæ, with its racemes of blue flowers; Primula vulgaris, N. O. Primulaceæ; Cheiranthus cheiri (wall-flower), N. O. Cruciferæ, with its brachteate racemes, cruciate corolla, and tetradynamous stamens; Saxifraga cordifolia, N. O. Saxifragaceæ, a very hardy plant, abundant upon the rockeries of the gardens. And in addition to these the student will observe Aconitum napellus and Colchicum autumnale, both of which are sending forth their spring leaves.

OLDHAM

' CHEMISTS' ASSISTANTS' AND APPRENTICES' ASSOCIATION. —On February 26 Mr. S. Marlor, of Lees, read an interesting paper on "Alchemy." After giving some account of the observations of Paracelsus, Lully, and others, Mr. Marlor remarked:-"Satisfied with our own superior knowledge, we are apt to smile and wonder at the credulity of the ancient professors of alchemy, and forget that there is much to be yet discovered, and that the coming twentieth century may witness the same self-satisfied smile of our successors at our modern ideas, almost perfect though they may appear to us; and that, although they (the alchemists) were unsuccessful in their endeavours to obtain the philosopher's stone and elixir of life, they made discoveries which, when we consider the general superstitious ignorance of the ages in which they were made, call forth our deep admiration, and all the more so when we remember that each one was a step nearer the great modern science of chemistry.'

SHEFFIELD.

THE PHARMACEUTICAL AND CHEMICAL SOCIETY'S ANNUAL SUPPER.

THE members met at the Freemasons' Hall on March 4, when an excellent supper was served. Mr. J. Preston, president, occupied the chair, and proposed the usual loyal toasts, which were heartily responded to.

Mr. JERVIS proposed the toast of "The President," who, he said, had done more for the Society than any man who had filled the office before him. He had devoted himself especially to looking after and aiding the education of the younger members, and in that work he had thoroughly succeeded.

The PRESIDENT was very cordially received on rising to respond. He said he looked forward to Mr. Newsholme succeeding him in the presidential chair with great pleasure. It was true that while he had held office he had had the education of the rising portion of their confraternity mainly at heart, and he knew that Mr. Newsholme fully shared in his own earnest desire to carry on that work. It had been his aim that Sheffield should be worthy of its position, and that it should be the centre for the education of the rising pharmacists, not only in the town, but in the neighbourhood. (Renewed cheers.) Although the aim he had had in view had not been fully realised, yet it had been so to a very great extent; and he hoped at no distant date they would have an educational institute in Sheffield, if not equal to any one in London, at least second to none in the provinces.

Mr. J. T. Dobb proposed, amidst loud applause, the "Pharmaceutical Society of Great Britain," and, after referring to the jealousy that once existed between that society and the chemists and druggists, said "now the olive branch had begun to bud, and now they could sit down together and

smoke the pipe of peace."

Mr. WARD (local secretary of the Pharmaceutical Society), in responding, referred to the proposed curriculum of the students, and said the object of it was to enable a youth to go through a course in something like three years, in preparation for his final examination. He hoped Sheffield would have all this curriculum at its own door. He saw no reason why that should not be so. The Pharmaceutical Society was ready to help them, and would give them a grant annually if they would only prove that they were in earnest.
The "Sheffield Pharmaceutical and Chemical Society" was

proposed by Mr. Tomlinson, of Manchester, and respect to by Mr. FURNESS.

The toast list closed with that of the "Visitors," which given by Mr. ELLINOR and responded to by Mr. H. Nov Several songs were sung, and a most enjoyable eveningwas spent.

DEATH OF A CHEMIST AND DRUGGIST FROM HIGO. PHOBIA.—The Sheffield Coroner held an inquiry on Fe 21 into the death of Richard Rainforth, chemist and druist Alderson Road, who had died two days previously from he effects of a bite by a collie dog. The evidence showed ia it was a clear case of hydrophobia. The deceased was age that he was suffering from that malady, for when it ras proposed to call in a physician he said, "I know what is, and all the doctors in the world cannot cure me, I am bad to die, and it is only throwing money away." The own of the dog stated that Mr. Rainforth, after examining he animal, remarked, "Oh, it's all right; it's only suffering an a little constitutional disturbance." The dog almost incdiately jumped up and bit him in the cheek. It was at ce secured in the kennel and shot. Witness sucked the wold on deceased's cheek, and went with him to the dispensario have it cauterised. The jury returned a verdict that e deceased died from hydrophobia caused by the bite of a g

ST. ANDREWS, N.B.

AN UNREGISTERED DENTAL SURGEON.-In the Cur Sheriff Court, on 6th inst., Alexander Ross French, formy a confectioner in Dundee, and now residing in St. Andres was charged with a contravention of the Dentists Act, 18. The libel set forth that the accused unlawfully used the te of "Dr." French, dental surgeon, by having the same on's door-plate, lamp, and signboard at his place of residence, :1 with unlawfully using the titles of "D.D.S.," resident geon, "Dr.," and "D.S." The accused pleaded "l. guilty." His defence was that he had advertised that was "not a registered dentist," and he contended that titles used by him did not come under the jurisdiction After evidence, the charge was found prov British law. and the Sheriff imposed a fine of 101., with the alternative seven days' imprisonment.

SUTTON COLDFIELD.

THE BUSINESS established some years ago by Mr. Holm' (formerly at Aston) in Station Street, Sutton Coldfield, h been purchased and is being carried on by Mr. Crane, fro London.

WESTON-SUPER-MARE.

ROBBING THE TILL.—At the Police Court, on February 2 John Hughes, an assistant, in the employment of Mr. Edwi Hall, chemist and druggist, High Street, pleaded guilty to charge of stealing money from the shop-till. The magistrate said the offence was a very serious onc, but taking into cor sideration his comparative youth, and also that this wa as far as they knew, prisoner's first offence, they were incline to give him another chance by imposing a fine instead commitment. A fine of 40s was imposed, or in default on month's imprisonment with hard labour.

"SALLY-COME-UP" is the elegant title chosen by Mr. Young, of Pontefract, for a cough mixture advertised by him locally. We hope and believe he will be left in undis puted possession of the copyright in that title.

BENZINE JELLY FOR REMOVING SPOTS .- 120 oz. of white soap are dissolved in 180 oz. of hot water in a litre bottle The solution is then made up to 30 oz. of ammonia added. three-fourths of the bottle by the addition of water, and the whole shaken up. A teaspoonful of this mixture is placed in a bottle holding 250 oz., and mixed therein with some benzine, and afterwards the bottle is filled with benzine under protracted shaking. The result is a gelatinous mass from which the benzine evaporates but slowly. It is useful in removing spots from articles of apparel.—Pharmacentische Post.

ISSRS. S. MAW, SON & THOMPSON.—COMING OF AGE OF MR. C. T. MAW.

N the invitation of Mr. Charles Maw, senior partner of the firm of Messrs. S. Maw, Son & Thompson, a large comly assembled at the Albion, Aldersgate Street, on Saturday, ornary 14, to celebrate the majority of his eldest son, Mr. arles Trentham Maw. The party consisted of about 200, I with the exception of the Rev. S. Flood Jones, Vicar of Botolph's, in which parish the business of the firm is ried on; Mr. Alderman Staples, the Alderman of the Ward Aldersgate Street; Mr. J. Thompson, Mr. Maw's partner; I some half-dozen of his near relatives, including his three est sons, Mr. C. T. Maw, Mr. H. T. Maw, and Mr. F. T. w, was composed exclusively of employés of the firm. addition to those present there were some 170 others ployed in the house whom it was found impossible to seat, ing to want of space. These were compensated for their appointment by receiving an extra week's wages each. 3 tables were elegantly decorated with flowers; the equet was served in the well-known style of the Albion; I during dinner some excellent music was performed by a d under the direction of Mr. W. Collingwood Banks. Charles Maw presided.

After dinner the Chairman proposed the usual loyal toasts, ich were duly honoured. The Rev. S. Flood Jones acknow-ged the toast of the "Clergy of the Church of England Ministers of all Denominations"; and Colour-Sergeant pkins was called upon to reply for the "Army, Navy, and lerve Forces." The special toast of the evening, the ealth of Mr. Charles Trentham Maw," was proposed by John Bailey, the senior warchouseman, who mentioned t the had entered the service of the firm in 1839. Amid hrty applause, he expressed what was evidently the unimous feeling of cordial esteem towards Mr. C. T. w, and on behalf of his colleagues and himself presented him an engrossed address, together with a very handsome ser épergne, suitably inscribed. The design represented aine supported by figures emblematic of Industry, Plenty,

Ir. C. T. MAW, in a short but happily-phrased speech, ressed his gratitude for the handsome épergne they had sented to him, and for the kind words with which it had tn accompanied, which would always linger in his nory. The health of Mr. Charles Maw was next posed by Mr. Banks, and met with a cordial re-The CHAIRMAN, in responding, gave a short teh of the history of the House of which he is now the chief. It was founded by his grandfather, Mr. George w, originally a Lincolnshire farmer, who came to London the early part of this century, and in partnership with a Hornby commenced business in Leadenhall Street as a olesale druggist, under the style of "Hornby & Maw." s venture, however, proved unsuccessful, and Mr. Maw it with the loss of a large portion of his capital With at was left he then bought from the representatives of a Lowe a small business in Whitecross Street, the main t of which consisted of the manufacture of medical sters. Here he was joined by his eldest son, Mr. John tnby Maw, and soon afterwards removed to Allermanty, where, on the retirement of the senior partner, Mr. lomon Maw, the speaker's father joined his brother, and y made a second move to more commodious premises, .11 Aldersgate Street, where he (Mr. C. Maw) was born. J. H. Maw (who is still alive at the age of 85) soon rewards retired, and the concern was carried on by Mr. Law alone until 1860, when Mr. C. Maw was admitted, the, in his turn, conducted it by himself from the time cois father's (Mr. S. Maw's) death, in 1861, until he was jed, in 1870, by Mr. Thompson, when the firm was stituted as it at present remains.

fr. Alderman STAPLES proposed "Success to the firm of Slaw, Son & Thompson," to which Mr. John Thompson r lied. Having been one of the representatives of the firm a'ar back as 1852, he spoke of the reputation which it had t n acquired for the excellence of its manufactures and f its honourable dealings. Mr. Thompson traced in some ail the growth of the business during the past thirty years. 1; number of persons employed in the house at the present

time is 350, of whom 96 are engaged in the actual manufacture of surgeons' instruments and appliances; in commenting on the eo-operation of the staff, Mr. Thompson mentioned that the senior warehouseman had been with the firm 46 years, one of the town travellers 41 years, several others from 25 to 35 years, one-fifth of the employes over fifteen years, and one-third from five to fifteen years. He concluded by proposing the health of "The Employés," and this toast was responded to by Messrs. Holdsworth, Martin, Banks, and Carter. After Alderman Staples had replied for "The Visitors," and Mr. F. T. Maw for "The Ladies," the Chairman and several friends left; but the conviviality was continued for some time by the majority of the company.

CHEMICAL SOCIETY.

Dzeember 13, 1831.

Dr. Russell, F.R.S., in the chair.

The following gentlemen were elected fellows:-W. P. Ashe, Sir B. V. S. Brodie, Bart, J. F. Ballard, W. Briggs, M. T. Buchanan, W. G. Brown, H. M. Chapman, W. H. Eley, J. Frost, T. P. Hall, H. J. Hodges, H. Jackson, F. Johnson, J. D. Johnstone, G. F. Kendall, C. W. Low, F. M. Mercer, P. C. Porter, V. E. Pcrez, A. Rickard, K. B. B. Sorabji, R. C. Steele, H. Smith, E. G. Smith, G. Thorn, W. Tate, P. C. Thomas, T. Wilton, J. H. Worrall, W. C. Wise, W. H. Wood.

The following paper was read :-

"Chemico-Physiological Investigations on the Cephalopod Liver, and its Identity as a True Pancreas," by A. B. Griffiths, The author could not detect any bile acids or glyeogen in this organ, but a ferment obtained from it by glycerine converted starch-paste into sugar, and formed from fibrin-obtained from the muscular fibres of a young mouse—leucin and tyrosin; the latter body giving, with a neutral solution of mercuric nitrate, a red precipitate.

It was announced that at the next meeting, January 15, Professor Thorpe would read a paper on "The Atomic Weight of Titanium," and that Dr. Frankland would give a lecture in February on "Chemical Changes Produced by Microorganisms."

January 15, 1885.

DR. W. H. PERKIN, F.R.S., President, in the chair.

"On the Atomic Weight of Titanium," by Prof. T. E. Thorpe, F.R S. After numerous experiments the author adopts the number 48.01 instead of 50.25 which was found by Pierre, and has been generally accepted. The number 48 01 is in entire accordance with the value required by the Periodic Law; Mendelejeff's prevision thus receives a further experimental confirmation.

"Note on the Constitution of Propylene-chlorhydrol," by Dr. H. F. Morley and A. J. Green.

"The Action of Zinc Ethide on the Benzoate from Propylene-

chlorhydrol," by the same.

"On Nitrobenzalmalonic Acids," by C. M. Stuart, M.A. "Alkaloids of Nux Vomica. III. Some Experiments with

Strychnine," by W. A. Shenstone, lecturer on chemistry in Clifton College. In continuation of his experiments on strychnine, the author has studied the action of bromine upon the alkaloid, and also the action of nitric acid on bromostrychnine and upon strychnine itself. Strychnine can be readily and entirely converted into the monobromostrychnine of Laurent by the addition of bromine to a solution of strychnine hydrochloride in about fifty times its weight of water. On treating bromostrychnine and also strychnine itself, with strong nitric acid, besides the nitrostrychnines of various observers, a fair amount of 1:2:4:6 trinitrophenol is produced. This last observation is of importance, as it shows the presence in strychnine of a benzene-ring of carbonatoms, and probably also of at least one hydroxyl-group, the latter inference being confirmed by the behaviour of strychnine with alkaline oxidising agents.

"On the Physiological Action of Brucine and of Bromostrychnine," by Dr. T. Lauder Brunton, F.R.S. The difference between the effect of trucine and strychnine appears rather

to be one of degree than of kind, and to be chiefly dependent on the more ready elimination of brucine. Like strychnine, brucine produces death by convulsions and not by paralysis; but like curare, it is innocuous when taken into the stomach, though fatal when injected under the skin. Bromostrychnine has an action very much like that of strychnine.

"Crystallegraphy of Bromostrychnine," by H. A. Miers, British Museum. The crystals belong to the rhombic system, and are mostly rectangular tables. Measurements are given.

"On the Formation of Pyridine Derivatives," by H. V. Pechman and W. Welsh. It is pointed out that nothing is as yet known of the character of the changes which occur in plants and which lead to the production of the alkaloids, and that it has not hitherto been possible to produce alkaloids by reactions taking place under ordinary conditions of temperature. In coumalinic acid, discovered by one of the authors, and obtained by treatment of malic acid with sulphuric acid (Ber., 1884, 936), however, a body has been discovered which at once reacts with aqueous ammonia even at the ordinary temperature, forming hydroxynicotinic acid,

 $C_5H_3O_2$, COOH + NH₃ = OH₂ + C_5H_3 N(OH). COOH, an acid which stands in close relation to the alkaloids.

February 5.

DR. W. H. PERKIN, F.R.S., President, in the chair.

Messrs. J. B. Ballard, Frank Broughton, Rev. Dr. Eley, C. C. Hutchinson, Herbert Jackson, and C. E. Hutchinson

were formally admitted Fellows of the Society.

The following were elected Fellows of the Society:-Messrs. William Lane Clark, John Norman Collie, Augustus E. Dixon, George Embrey, Arthur George Green, George G. Henderson, George Selkirk Jones, Walter Frederick Parkhurst, Franz Rindskoff, Harold White, Henry B. Whitehead, Alfred C. Wilson, William Albert Wrenn, Alfred C. Young.

A lecture was delivered—"On Chemical Changes in their relation to Micro-Organisms," by Professor Frankland, D.C.L., LL.D., F.R.S. A plant being defined as an organism performing synthetical functions, or one in which these functions are greatly predominant; an animal as an organism performing analytical functions, or one in which these functions greatly predominate: the micro-organisms were classed by the lecturer among animals. Their life essentially depends upon the taking asunder of more or less complex compounds, resolving them into simpler compounds at the expense of potential energy. The observations of Hatton and others have shown that micro-organisms retain their vitality in presence of a variety of substances which rapidly prove fatal to higher animals; the unexpected fatal effects of spongy iron would seem to promise, however, that there are substances fatal to bacterial life which have no toxic effect on more highly organised animals. It has not yet been shown that any degree of cold, however intense, is fatal; animation may be suspended, but it is restored when the temperature rises. With regard to heat, the lowest fatal temperature recorded is 40° C., but many species can withstand much higher temperatures. Chloroform and compressed air arc said to arrest their action, but to have no influence in preventing the changes brought about by unorganised ferments. The position of micro-organisms in nature is only just beginning to be appreciated; their study both from chemical and biological points of view is, however, of the highest importance to the welfare of mankind, and leads the inquirer right into those functions of life which are still shrouded in obscurity.

In the discussion on this paper, Professors Burdon Sanderson, Ray Lankester, Michael Foster, Dr. Lander Brunton, Mr. Warrington, Dr. Hutchinson, and others took part.

Prof. RAY LANKESTER disputed Prof. Frankland's classifi-

cation of the ferment organisms with animals.

Dr. Brunton suggested that it was highly probable that the symptoms occurring in certain diseases were due to poisons formed by the action of organisms and not directly to the organisms themselves. This was not improbably the case in cholera. Micro-organisms may even produce substances fatal to themselves, e.g., phenyl compounds. is also the case with higher organisms, the retention of the urine in man being often attended with fatal results. Although cholera was very probably due to the presence of low organisms, the symptoms were so very like those produced by certain poisons, that it was difficult to cases of poisoning by arsenic from cholera cas cholcra poison was probably of an alkaloïdal charter a related to the ptomaines.

Mr. WARINGTON said with regard to the difference two animals and plants, he thought the fact had been soewh overlooked that plants are able to obtain their nitrog fr such simple compounds as ammonia and nitrates, here animals appear to require to have the nitrogen prestel them in an albuminoid form.

February 19.

DR. W. H. PERKIN, F.R.S., President, in the chair.

Messrs, G. S. Bowler, T. R. Duggan, A. G. Green, V. W. Nicol, W. F. Pankhurst, T. A. Rickard, F. Rindskof Thomas, and H. H. Whitehead were admitted Fellow of Society.

The President declared that the following changen Council were recommended to the Society:-

As President: Dr. Hugo Müller, F.R.S., vice Dr. ark

As Vice-Presidents: Mr. W. Crookes, F.R.S., and Pro-W. A. Tilden, F.R.S., vice Dr. Voelcker (decease) an Dr. Griess, F.R.S.

As Foreign Secretary: Dr. F. R. Japp, vice Dr Hu Müller.

As Ordinary Members of Council: Prof. F. Clow M. A. E. Fletcher, Prof. G. C. Foster, F.R.S., at M. Ludwig Mond, vice Dr. Japp, Dr. Hodgkinson, r. Howard, and Prof. Schorlemmer.

Mr. R. H. Davis, Dr. P. F. Frankland, and Mr. Makinwere appointed to audit the treasurer's accounts.

The President announced that Mr. Warren de la Rue, R. had presented a bust of the late Prof. Dumas.

The following papers were read:-

"On Benzoylacetic Acid and some of its Deriva es, Part II., by Dr. W. H. Perkin, jun.

"On Toughened Filter-paper," by E. E. H. Francis. Iterpaper which has been immersed in nitric acid, rel. den 42 and washed with water, is remarkably toughened, the plur being pervious to liquids and quite different from parel me paper made with sulphuric acid. Such paper can be whe and rubbed without damage, like a piece of linen. The contracts in size under the treatment and the ash is nished; it undergoes a slight decrease in weight and countries to the contracts of the contract of th no nitrogen. Whereas a loop formed from a strip 25 mm.id of ordinary Swedish paper gave way when weighted it 100 to 150 grammes, a similar loop of toughened paper bea weight of about 1.5 kilo. The toughened paper can be with the vacuum-pump, in ordinary funnels without imsupport, and fits sufficiently closely to prevent undue asset of air, which is not the case with parchment-paper. An admirable way of preparing filters for the pump is to diply the apex of the folded paper into nitric acid and then sh with water; the weak part is thus effectually toughened.

"The Detection and Estimation of Iodine," by Ernes H. Cook, B.Sc. (Lond.). The usual tests for iodine when eting as an iodide are rendered somewhat difficult by thercumstances that nitrous acid liberates bromine as we as iodine, while if an excess of chlorine be employed, colous chlorides of bromine and iodine are formed. These difficus become of importance when it is desired to detect sil quantities of iodides in the presence of comparatively live quantities of bromides, or when a quantitative estimation of be made of the iodine. To avoid these difficulties, the autr proposes to use hydrogen peroxide, which is added ton Under these circumstances, the wle acetic acid solution. of the iodine is separated from the iodide, while bromis and chlorides are unaffected. Details of the methods's employing the test for qualitative and quantitative purpos are given; in the latter case the iodine is extracted by me of CHCl3, the solution is washed with a little water to rem? hydrogen peroxide, and the titration of the iodiue then I formed in the usual manner.

Discussion.—Mr. Groves said that he had very successful used nitrous acid in determining small quantities of ioding presence of much chlorine.

Dr. Japp did not know that the method described v better than the old well-known process of adding titrat prine water in presence of carbon bisulphide until the cur of the iodine disappeared, which took place when 5 tomic proportions of chlorine to 1 of iodine had been

Ir. Groves had found this latter a far less convenient

Tess.

7. Stevenson spoke to the same effect, and said that he

a) had found the nitrous acid method satisfactory.

Note on Methylene Chlor-iodide," by Prof. J. Sakurai.

A Quick Mebod for the Estimation of Phospboric Acid in Itilisers," by J. S. Wells, Columbia College. Finding the monium molybdate metbod too long and tedious when iny analyses of fertilisers bad to be done, the author bas puted Joule's citric acid metbod as a gravimetric process. employs two solutions: A, consisting of citric acid grammes, ammonia solution (rel. den. 0-92) 1,400 c.c., ver 500 c.c.; and B, a strong solution of magnesium cate. One gramme of the fertiliser is fused with sodium conate and nitrate, dissolved in nitric acid, and the silica ared off. To the filtrate some of solution A is added, and whole allowed to stand for half an hour; enough of the silica is the silica added to precipitate the phosphoric if.

On the Luminosity of Methane," by Lewis T. Wright,

oc. M.I.C.E.

on the Oxides of Nitrogen," by Prof. W. Ramsay and Indor Cundall. In the discussion which followed this per Dr. Armstrong called in question the existence of the apound N_2O_3 .

THE CHEMISTS' ASSISTANTS' ASSOCIATION.

N February 25 the Chemists' Assistants' Association held their annual dinner at the Holborn Restaurant. The chair vi taken at 9 P.M. precisely, the bour being, perhaps, a tter of necessity, but late for those who bave to patronise surban railways. Besides, to imagine that middle-aged losophers are indifferent to missing a bright musical ertainment is quite an error of judgment. The Venetian m in which the dinner was served is one of the most ractive interiors in London. It was occupied by 175 guests, al, when the visitors rose in acknowledgment of the toast posed in their honour, it was seen how liberally the hosts l issued their invitations. Among those who accepted itations were the president, vice-president, treasurer, and eral other members of the Council of the Pharmaceutical niety, Dr. F. T. Roberts, one of the physicians to University llege Hospital, Dr. Macnaughten Jones, Mr. Carson, F.R.C.S., Mr. Frankish, F.R.C.S., Mr. F. W. Branson, of Leeds, and C. E. Stuart, B.Sc., of Newcastle, both past presidents of Association.

Professor Attfield was in his element as chairman, and de an admirable speech in praise of the Association, livered with much cordiality, and most enthusiastically ceived. His presence there was the best proof of the ality of the position which this prosperous organisation

is attained.

Mr. Carteighe, as representing the Pharmaceutical Society, id especially the Board of Examiners, sketched the advanges of the proposed curriculum, maintaining that its ovisions were directly in favour of the candidates.

One of the most successful short orations was made by Dr. oberts, who spoke entirely to the purpose, and was, morever, very kind in his remarks on the claims of pharmacy. e had himself begun as a chemist's assistant, and was sure lat, if pharmacists sometimes trenched upon professional ork, medical men were unfortunately to be found who aded upon the legitimate province of the druggist.

The President of the Association, Mr. Richard Winfrey, tailed the more recent progress of the Society over which presides, and explained their mode of action. This year is a record of success, for large numbers had joined. There at present 125 members, which is thirty-five more than at y previous period. It was difficult in that and in similar dertakings constantly to recruit the ranks and to sustain merical efficiency. He defended the introduction into their cussions of matters not strictly pharmaceutical, as they med an encouragement for the junior members to exercise e art of speaking. He had himself suggested the subject

of "The Coming Democracy," which was of a political character. In his opinion they should know something of the national events that were taking place.

Mr. Umney replied for the visitors; and there were sundry

ther toasts

The singing, as usual, was good, being entrusted solely to the members of the Association, without professional aid. Some of the songs bad to be postponed until the speech programme had been duly executed; and, as trains will not wait even for those who are using their time to the best possible advantage, we left the company while tbey were in the act of conveying to Professor Attfield their assurance that he was a jolly good fellow, and that that was their collective opinion; with regard to which statement no doubt whatever can exist.

PHARMACY IN AUSTRALIA.

(FROM OUR OWN CORRESPONDENT.)

MELBOURNE, VICTORIA, January 23.

A LEGAL POINT. PROOF OF AGENCY.

A N important appeal case is shortly to be tried in the Supreme Court, which, if decided adversely to the Pbarmacy Board, will necessitate the amendment of the Poisons Act. The facts of the case are, shortly, that a Chinese storekeeper was prosecuted by the Board for illegally selling opium. The evidence at the trial in the Police Court showed that an officer of the Pharmacy Board had bought some opium at the defendant's store, and also saw other people buying opium at the same time. The defendant was not present at the time of the sale.

The counsel for the defendant contended that the summons should be dismissed, as there was no proof that the sale was made by an agent or servant of the defendant, and

cited several legal decisions in support of his view.

On the other hand it was submitted for the Board that the sale was made in the ordinary course of business in an open shop, and that it must be presumed that the person selling was the agent or servant of the proprietor, and unless evidence was called by the defendant to rebut it the Court should act on such presumption. Counsel also pointed out that to hold otherwise would be to render the Act nugatory, as in most cases it would be impossible to give actual proof of the agency of persons conducting sales. The Court, however, decided that there was not sufficient proof of agency, and dismissed the case with 21. 2s. costs. Against this decision the Board have appealed to the Supreme Court, and the result is looked for with some interest as involving a very important issue.

THE COLLEGE OF PHARMACY.

The Council of the Pbarmaceutical Society of Australasia have been in some difficulty in reference to the proposal to obtain the services of an able man from England to lecture at the College of Pharmacy. I understand that negotiations were opened with a gentleman in London who was in every way fitted to fill the position, but the difficulty appears to have been in financial matters, the Government not being in a position to provide the necessary funds this session.

The 1885 session of the College of Pharmacy will commence on March 9, and I hear that a large number of students from the other colonies are likely to attend. Since the idea of getting out instructors from England was abandoned the Council of the Pharmaceutical Society have invited applications by advertisement in all the colonial newspapers from gentlemen to fill the positions of lecturers, and, as there are several possessing first-class qualifications available, it is boped that really efficient men will be secured.

ASSISTANTS.

The Victorian Chemists' Assistants' Association have beld a social supper at the Masonic Hall. A number of visitors, including the Presidents of the Pharmacy Board and Pharmaceutical Society, were present, and in the course of some of the speeches reference was made to the difference in the position of assistants now and twenty years ago. Messrs.

Blackett and Brinsmead gave some interesting particulars of a chemist's assistant's life in London thirty years ago. The Assistants' Association has made steady progress, and is now in a flourishing condition.

PERSONAL.

Mr. Herbert Rocke, of the firm of Rocke, Tompsitt & Co., of this city, wholesale druggists, has returned in the Austral after an absence of over twelve months.

Mr. Gwilym Evans, F.C.S., pharmaceutical chemist, of Llanelly, South Wales, has been on a visit to Victoria. After visiting the College of Pharmacy Mr. Evans expressed himself greatly pleased with the arrangements for the students in the laboratory, which, he says, are the completest he has ever seen either at home or abroad.

HOP BITTERS.

Another prosecution under the Trade-mark Statute has been instituted by the Hop Bitters Manufacturing Company, who applied for an injunction to restrain J. Wharton, of Sandhurst, from selling or exposing for sale any bitters in bottles bearing labels similar to their own. The judge before whom the case was tried was of opinion that there was such a resemblance between the two labels as would deceive an incautious purchaser. He therefore decided in favour of the plaintiffs, and granted the injunction, with costs.

PSEUDOCUTICLE SOCIETY-EVENING MEETING.*

THE March meeting of this Society was held on Wednesday the 4th inst., the President, Mr. Van Hey in the chair.

As your readers are aware, the peculiarity of these evening meetings consists in the fact that the papers read are only compiled on the day of the meeting, neither the authors nor the topics to be discussed being selected until after midnight of the preceding Tuesday. The object of this arrangement is partly to give authors the opportunity of exercising the imaginative faculty (too often neglected in the treatment of scientific subjects), and also, by stimulating curiosity, to ensure an audience.

By the courtesy of the President, we have been favoured with an insight into the modus operandi of the system. The method is simple. On a sheet of ordinary foolscap are written the names of some twelve or more gentlemen, known to be adepts in the art of extemporary research. The President of the Society is then blindfolded by the Secretary, and with a well-inked pen hurls three blots at the paper.

The three names nearest to which the blots fall are noted down, and a telegram as follows despatched to each:—
"From the President of the Pseudocnticle Society to

"From the President of the Pseudocnticle Society to Mr. ——. Evening meeting. You will have to read paper to-night. Commence research at once. Turn up at eight sharp. Wire in."

The spirit of Nelson's watchword is nowhere more potent than among the unpremeditating philosophers of the Pseudocuticle Society. In the epigrammatic terseness of their President's summons, they are always ready to "wire in," and the subject matter and elaboration of style which characterise the papers they produce are prodigies to anyone unacquainted with the resources of Watts's Dictionary and the "Penny Encyclopædia." But to return.

The first paper on the list at the last meeting was entitled "Note on the Proximate Intoxicating Principle of Allsopii Bitteralium," by Mr. Hammer, F.C.S., F I C., &c."

The author remarked that a well-known purveyor of alcoholic beverages had recently submitted to him a sample of this extract, which was found to possess well-defined characteristics of an exhilarating and soporific nature. An inquiry was therefore instituted with a view of determining, if possible, the particular constituent stated to be possessed of this remarkable property. As a preliminary precaution, and to eliminate problematical sources of error, the stone vessel containing the extract was first reduced to powder, and the pulverulent substance thus obtained was subjected

* We had not before heard of this Society, but its proceedings seem of sufficient interest to warrant the publication of this report, which has been sent to us by a member.—ED. C. & D.

to a systematic analysis. The details of this investigan arc too minute to embody in an abstract, but it will sufficient to say they were attended with negative results.

Attention was next directed to the cork of the both No clue presenting itself from external evidence, it scalcined for a week in a Siemens regenerative furnace, it the ash examined by means of the spectroscope. absorption bands were not such as could fairly be consided abnormal. The extract itself was next taken in hand, and most exhaustive series of experiments were made in orden determine its vapour-density, flashing-point, &c., &c. observations, although of an exceedingly original a striking character, did not throw any important light up the problem to be solved. The next point to be ascertain was the physiological effect of the extract, and for to purpose it was necessary to obtain a considerable quantity the extract. The delay which this occasioned unfortunat precluded the author from pushing his inquiry to the desil point, but arrangements had been made with the laborat porter, to submit to the administration of a pint of t extract, whilst fasting, and the author concluded his pawith a promise to submit the results of the experiment a future meeting.

The President, in proposing a vote of thanks to tauthor of the paper, deprecated any discussion on the occasion, as the investigation was as yet somewhat complete, but he was quite sure they might all look forwards interest to the further results of Mr. Hammer's interesting research.

The next paper, by Mr. Wrong, Ph.C., was entitled, "No on the Estimation of Iron in a Homeeopathic Globul A considerable portion of the paper was occupied with examination of numerous hypotheses to account for t presence of iron in the globule under examination, none which appeared to be quite satisfactory. The mea adopted for the detection and estimation of the metal we then described in detail. Inter alia it was stated that the globule was not attracted by the magnet; that in contawith charcoal it was not converted into metallic iron by the oxyhydrogen blowpipe, that its solution in water did no blacken the teeth, and that when mixed with tincture of galls it did not yield writing-ink. A portion of the globul was, however, reduced to powder, mixed with sand, an exposed for some hours in a gun-barrel to a cherry-red hear The resulting product, lixiviated with water, gave a distinc coloration with sulphocyanide of potassium, and the estimation of the iron was then effected by means of a volumetric process which would be described on a future occasion.

The President having invited discusion, Mr. Swallowdale said, àpropos of Mr. Young's paper, he thought this was a favourable opportunity to mention that his little book had reached a third edition, and that it was now generally recognised by the profession as the only extra-ordinary authority.

Professor Taldefit, in congratulating the author of the paper on the succinct manner in which he had presented the results of his research, took occasion to remark that the Pseudocuticle School, over which he had the honour of presiding, was undoubtedly the best in the Kingdom, and he besought the meeting to beware of spurious imitations. The letters which he was constantly receiving from the parent of his pupils were of the most affecting kind, and, thoug it would be somewhat presumptuous on his part to dictat to members, he must state his conviction that it was the duty of every father to place his son (if he had one) in the laboratories of the Pseudocuticle School.

The third paper was by Dr. Silas, on "Hints on the Adoption of Cocaine as a Disinfectant."

The author first gave an interesting résumé of the literature of vibrios, bacilli, and bacteria generally, ampointed out that no disinfectant had hitherto been considered satisfactory which did not destroy the life of these prepaigness.

In consequence, however, of the agitation against vivi section, humanitarian doctrines were now held by a no inconsiderable portion of the community, and sooner olater there would be an outcry against the use of disinfectants, which destroyed the life of even the humble bacillus.

As a way out of this difficulty it had occurred to the author that the object of a true disinfectant might still be attained without sacrifice of life, by simply suspending the

y of the organisms in question by means of an hetic, and cocaine naturally suggested itself as one to be popular.

concluding his remarks, the author invited members ward him supplies of the alkaloid. Its action as a discetant he would describe in a subsequent paper.

vote of thanks having been unanimously accorded to Dr. las, the meeting adjourned until April 1.

ACCIDENTAL EXPLOSIONS PRODUCED BY NON-EXPLOSIVE LIQUIDS.

FREDERICK ABEL, C.B., &c., delivered a lecture on his subject, at the Royal Institution, on Friday, March points of the resulting particular accounts of a large number of points on board ship and elsewhere, resulting from the color the vapours of inflammable non-explosive liquids, a purer discussed the experiments made by himself and provent resulting from the color of the vapours of inflammable non-explosive liquids, a purer discussed the experiments made by himself and points of mineral-oil lamps. These were briefly sum-

and as follows: a partially filled lamp were carried or rapidly moved, a re of oil vapour and air might be caused to escape from mp in close vicinity to the flame, and by becoming mil might determine the explosion of the mixture existing t reservoir. This escape might occur through the burner f the wick did not fit the holder properly, or through pengs which exist in some lamps in the metal work close to elener, of sufficient size to allow flame to pass through them A sudden cooling of the lamp by its exposure to a trant or by its being blown upon, as, for instance, in adoptcommon practice of blowing down the chimney to tituish the flame, might give rise to an inrush of air, and me might be at the same time drawn or forced into servoir. The sudden cooling of the glass if it had cooleacted by the burning of the lamp might also cause to ack if it were not well annealed, and the fracture, might allow oil to escape, might convey the impression at explosion had taken place. If the flashing point of were somewhere about 73° F. (the minimum fixed by apour would be given off comparatively freely, but the xte of vapour and air would be but feebly explosive; whilf the flashing point were high, vapour would be less and copiously produced, but the vapour mixture be more violently explosive. If the quantity of ithe reservoir were but small, and the air-space large, an elosion would obviously exert greater violence than if uch, or if for some other reason the flame were burning w, the lamp would be liable to become much heated, and the tendency to the production of an explosion would reased. Oils of high flashing point were more liable use heating of the lamp in consequence of the higher tenerature developed by the combustion and the comparalowness with which a heavy oil was conveyed by the wicks the flame. It therefore followed that safety in the mineral oil lamps was not to be secured simply by the myment of oils of very high flashing point (or low whility), and that the use of very heavy oils might even wise to dangers which were small, if not entirely absent, it is of comparatively low flashing point. The character wick very materially affected, not only the burning q is y of the lamp, but also its safety. A loosely-plaited wie of long staple cotton would draw up the oil to the flame reg rly and freely, while, if the wick were very tightly plail and made of short staple cotton, it would be of infer capillary power, the oil would be less copiously drawn up, id undue charring of the wick-with considerable hea g of the lamp-might ensue. If the wick were damp whetaken into use, or if the oil contained moisture, the cap ryaction of the wick would be impaired; and longconfued use of the wick would be liable to result in its bee ing choked with impurities, held in suspension in the oil spined through it. Many lamps were so designed as to facilite the production of explosion, openings or channels bein provided through which the flame might pass into the oil rervoir. simple suggestions were made for lessening, if not

removing, the risk of accident which attends the use of petroleum and paraflin oil.

1. The reservoir of the lamp should be of metal, and should have no opening or feeding place in the metal.

2. The wick used should be soft and loosely plaited; it should fill the wick holder, but not so as to be compressed within the latter, and it should always be thorough'y dried before the fire when required for use. The fresh wick should be but little longer than is required to reach to the bottom of the reservoir, and should never be immersed to a less depth than about one-third the total depth of the reservoir.

3. The reservoir of the lamp should always be almost

filled before use.

4. If it is desired to lower the flame of the lamp for a time, this should be carefully done, so as not to lower it beneath the metal work more than is absolutely necessary.

5. When the lamp is to be extinguished, and is not provided with an extinguishing apparatus, the flame should be lowered until there is only a flicker; the mouth should then be brought to a level with the top of the chimney, and a sharp puff of breath should be projected across the opening.

A CONTRIBUTION TO THE HISTORY OF THE DRUG TRADE.

AST month we recorded the fact that Thomas Hanbury, Esq., had presented to the library of the Pharmaceutical Society seven volumes, comprising catalogues of articles sold at Plough Court, Lombard Street, inventories of drugs, &c., during nearly a century. We have since had an opportunity of examining these volumes, and during a hasty search have extracted some particulars concerning the conditions of business which will probably interest our readers. If any one would spare the time to make a real comparative study of these records, somewhat in the style of Thorold Rogers' "History of Agriculture and Prices," there is no doubt that very much more interesting matter would be revealed.

The earliest record is an undated catalogue of drugs and of chemical and galenical medicines, prepared and sold by Silvanus and Timothy Bevan, in Plow Court, in Lombard

Street, London.

At the end of the little volume are some MS. entries of the prices of books:—"Theobald's Dispensatory," 3s. 6d. sterling; "Huxham on Fevers," 4s. 6d. sterling; "A Treatise of the Influence of the Sun and Moon upon Human Bodies, &c." (Dr. Mead), 4s. sterling; "Dr. Mead upon the Small-pox and Measles," 4s. sterling. "Theobald's New Compendious Dispensatory" was published in 1756. Huxham published his third edition "On Fevers" in 1757, and the fourth in 1764. Dr. Richard Mead's treatise, "De Imperio solis ac lunæ in corpore humano," &c., appeared in 1704, and was translated in 1712. His work "De variolis et morbilis" appeared in 1747, was Englished by Slack in 1748, and was published again in 1756 under the title of "Translation of the Latin Treatise on the Small-pox and Measles." The date of the catalogue, therefore, cannot be earlier than 1747, and was probably between 1756 and 1760.

The volume next in date contains inventories of drugs (i.e. registers of stock-taking), Timothy Bevan, 1776 to 1794. At the end of the last we find "Total eleven hundred and sixty pounds 3s. 6d., errors excepted, J. G. Bevan. London, 1, 7 mo.,

1794."

Next comes a laboratory calculation book, which, "chiefly in the handwriting of William Allen, is a record of laboratory operations at Plough Court, Lombard Street, in the years

1795, 6, 7, and 8."

There are then two copies of a catalogue of drugs sold by Mildred & Allen, chemists and druggists, dated 1796. Facing the title of one copy is inserted a wood-cut, which a pencil note by T. H. informs us is the chemist's shop in Plow Court. It is an old-fashioned building of several stories, with small-paned windows.

Following in order of time are inventories of drugs or accounts of stock-taking for the years 1810 and 1811, the firm then being William Allen & Co. The last is signed "3 mo., 25, 1812, D. B. H." Daniel Bell Hanbury, the father of Daniel Hanbury, was seven years older than the century. He

was nephew to William Allen and became his partner, and it is just possible that it was he, in his nineteenth year, who signed this account.

Next in date is a cost-price book, 1824–1844, of Allen, Hanbury & Barry, indicating by abbreviations the cost of each article, the date when, and the firm from whom, it was purchased.

Lastly, we have price-book of drugs, 1846 to 1866, Allen &

Hanburys, giving retail prices for that period.

Very remarkable is the neatness and legibility of the handwriting throughout this long period. There is hardly any difficulty in deciphering any entry in these five books; and this fact, slight though it is, is a significant indication of the characteristics which have ensured the continued growth of the firm.

THE VALUE OF THE STOCK carried by a first-class firm at that period caunot fail to be interesting. There are some remarkable fluctuations not easily accounted for. The first inventory of the stock of Timothy Bevan, July 1, 1776, occupied thirty-one pages, and was valued at 2,597l. 14s. 4\frac{1}{2}d.; in December, 2,603l. 12s. 0\frac{1}{2}d.; December, 1777, 2,2\frac{2}4d.; December, 1780, 1,953l.; December, 1781, 1,911l. 12s. 4d.; December, 1782, 1,707l.; December, 1783, 1,468l. 7s. 4d.; December, 1786, 1,374l. 12s. 1\frac{1}{2}d.; December, 1787, 1,440l. 1s. 9d. (occupying eighteen pages only); December, 1788, 1,360l. 18s. 2d.; December, 1789, 1.532l. 14s. 9d; December, 1790, 1,318l. 8s. 8d.; December, 1791, 1,240l. 6s. 1d.; December, 1792-93, 1,369l. 16s. 10\frac{3}{3}d.; July, 1794, 1,166l. 3s. 6d.; December, 1810, 3,814l. 8s. 4d.; December, 1811, 3,673l. 11s. 9d.

There are duplicates of the accounts for 1786 and for 1792-93, one of each pair is not cast, and of the latter pair

one is dated 1792 and the other 1793.

In the first of these inventories is a list of the stock of "Quack Medicines," but in 1780 the heading is "Patent." Here are the details for 1776:—

				_		٠.	
Court plaister, small		••	• •	1 do	zen at	2	6
Dr. James' powders	••			17 pap	ers, at	1	81
Lockyer's pills (small)				20 bo	xes, at	1	6
Walker's Jesuits' drops				8 bott	les, at	1	103
Elixir Bardanæ (Hill)	[doi	btless	John	Hill, M	.D.,		_
a most prolifie writer	on	herbal	niedic	ines]	4, at	2	6
Tinct, sage (Hill)					7, at		6
Tinct. valerian (Hill)					6, at	2	6
Baume de vie					4, at	2	6
Eaton's styptic (small)					3, at		6
Greenough's tincture					2, at		9
Hamilton's "					1, at		0
Brittish oil			•••	••	6, at		6
Turlington's (large)					4, at		
, (small)					6, at		6
Bateman's drops					14, at		
Squire's elixir, 38					7, at		
., 34					42, at		
Bostock's cordial					6, at		
Anderson's pills (small					ves, at		
Hooper's female pills,						•	U
13 boxes, total 1/. 5s.			per	· · · · · · · · · · · · · · · · · · ·	O.		
70				11 do	on of	7	9•
23. 2 0.3	• •	••	••				_
Balsam of honey	• •	• •	• •	••	• •	2	3 (er

In 1777 we find 24 quires of Stoughton's "Directions."

In 1810 we have the first entry of medicine stamps, 131. 11s. being the value of those in stock, of receipt stamps 111. 6s.

1776.—The list of glass and stone ware is uncommonly like what we still use:—Green bottles: square, for rose-water; squares, for chests; green stoppered bottles; square-stoppered, for E. vitriol; wide-mouth, flint-stoppered; narrow-mouth, flint-stoppered. White vials: Sorted. Green vials: square, for lavender; stone bottles, blue and white pots, galley-pots. But there are retorts, 17 different sizes, 17 at 1s. 3d. each; receivers, different sizes, 19 at 1s. 4d.; and boltheads, different sizes, 40 at 6d.

In 1780, Winchester quarts, at 3s. dozen, and Winchester pintt as 2s. 10d. dozen, wine, Corbyn, and common quarts, and pottle-retorts appear in stock. This is evidence of the existence of these names a century ago, but does not help us much to their origin. In the same year we find a "parcel" of oval pill-boxes at 3s. From 1790–94 the inventories seem to be in the handwriting of William Allen.

Perhaps the laboratory calculation book will be most inte-

resting to chemists. It is difficult to say how far 1s represents the actual business consumption of the retions recorded. A thorough analysis of it would a resting, but we have only space for a few specimens.

Scillæ siccat. is made six times in the four years '95

Here is one of the entries concerning it:-

```
      Seillæ reet., lb. 56 av.
      9

      Coals, 1\frac{3}{4} bushels, at 1/10
      3

      Attendance, 1\frac{1}{2} day
      6

      Lb. 9\frac{1}{4} at 2/0\frac{1}{4}, 18/8\frac{1}{4}.
      18
```

This is the style in which all entries are made. 'e entry of dried squill is made on 21, 2, 95, the last in D in '98. The quantity turned out is 72 lbs. 11 oz.; 'a in 1795; 5 lbs. in 1796; 19 lbs. 15 oz. in 1798. It is a some entries have been overlooked. The coverage of the coverage of the style of the coverage of the style of

Syrup of tolu is made six times, total 125 lbs. 6 o generally, 1s. 4d. to 1s. $4\frac{1}{2}d$., but 1s. 9d. in March, 17s sheing then 1s. 3d. per lb., against 1s. 1d. as a rule, ho balsam is 4s. 6d. per lb. against 6s. 6d., the price when made last. At this entry we have the following:—

N.B.—The syr, bals, tolu made this time is not to be taken for an in future. Josh, thinks it will be better to put the balsam intue balneum with the distilled water, put a small pan that will just in top of the balneum, nearly fill this with water, lute it round willing meal, only leaving a small vent-hole, set the balneum over a smaln fire, boil it for about half an hour, take it from the fire, let it c, s, it through a fine lawn sieve, and dissolve the sugar in the liqu ke over the fire as little as possible, it should just boil after the su it solved, then pour it into an earthen jar and cover it over, be take off the seum, and strain into the bottle through a lawn as funnel.

A good deal seems to have been done in the distillor essential oils. Thus in August and September, 17912183 lbs. of cssential oil of peppermint were distal 183 lbs. of cssential oil of peppermint were distal tons 10 cwt., the other 29 tons 17 cwt., both Killick, a herb-grower at Mitcham. The larger of 3761. 5s. 4d. for the peppermint, 9l. 18s. for coal, for the attendance of two mon for 21 days, 3l. of expenses of Killick's men, horses, &c., 2l. 2s. for the mof mint over 10 tons; but the cost of carting at rubbish, charged on other lots, is here omitted. The cost is 399l. 13s. 4d., the yield 128 lbs. 11 oz., which out at just under 62s. 3d. per lb. Previous lots cost in 64s. 6d. per lb. In July of the same year we have and of oil of lavender distilled partly at Plow Court and 131 Plaistow, yield 84 lbs. 12 oz., price from 36s. 6d. to 61 Lavender was bought by the dozen of 13½ lbs. at 6 a dozen.

Here are the charges for the first lot of calomel, necessity 22, 1795:—

				£	s.	(
Sublimate, 40 lbs. at 5/3	 ***	•4	••	10	10	(
Quieksilver, 27 lbs. at 4/11	 		••	5	10	
16 bolt-heads, at 1/6 each	••			1	4	(
Coals, 13 bushels	 	••		1	3	10
Attendance, 9 days at 4/	 	0-0		1	16	(
, ,					-	_
				20	4	- 1

 65_4^3 lbs. at 6/2, 20l. 5s. 5_2^1d .

rased)

The next lot entered is in February, 1796, $102\frac{1}{2}s$. 5s. $2\frac{1}{2}d$.; next in May, 1796, thrice sublimed, $77\frac{1}{2}$ lbs. 5 and in the same month, 48 lbs. of ordinary at 5s. 2d.

Ac. NITROS. DIL. is made several times. This to account for 76 lbs., made on May 4, 1795:—

Charging the yield at 1s. $6\frac{1}{2}d$. brings the tot of 5l. 17s. 2d. Twenty-eight lbs. are made next day; 11 lb on the 12th of the month, and 33\frac{1}{2} lbs. on the 29th.

Ac. nitros. made on July 1, 1795, costs 3s. 3d. per lb.; ll only are made.

Here is a formula for half-a-dozen horse-balls (till 7s. 14d. Nowadays they would probably cost mucles

Andance, five hours, is charged at 1s. 8d., and 2 oz. liquorice pider for rolling 31d.

3 6 Troy Aloes succot. pulv. India rhubarb ... ٠. 15 oz. Jalap pulv. 36 ('rem. tart. 56 Glager pulv. 3 1/2 .. ٠. •• 32 (il. cary oph. 32 Ol. anisi Syr. e spin elovin

ereb. venet. factit. is made on more than one occasion; quantities used do not always agree. Once we have libs, of yellow resin, 4 lbs. of black resin, and 91 lbs. of lercb.; at another time 46 lbs. of yellow resin, 16 lbs. of

olk, and 38 lbs. of ol. tereb.

lose renowned compounds, which have had a wider retation than any other galenical before the days of patent nicines, and have certainly had more public honour and e ded history and literature of their own than any other bound medicine, Theriaca Andromachi and Mithridates, have constant record in these volumes. In this a atory-book we find records of the manufacture fluriaca from the species (at 7s. 7d. per lb.); 16 lbs. tt 2s. 21d. per lb. on February 11, 1795; and in 1. 1795, an elaborate account of the cost of the vic sixty ingredients, from 36s. for strained opium, 10 for saffron, 3s. 6d. for vipers, to 1d. for sweet flag, and ng a total of 51. 14s. 2d. for the 111 lbs. of species. The ling cost 5s. 9d., sp. vin. rect. employed in assisting to und the gums, 1 pint, 3s. 3d.; thrice the weight of mel. desim., 41 lbs. $1\frac{1}{2}$ oz. at 10d., 17. 14s. 3d.; attendance, three

days, 18s.; charcoal, 1s.; total 56 lbs., costing 81. 16s. 5d.; or a trifle over 3s. $1\frac{1}{2}d$. per lb. There is the following note:

N.B.—The suce, glychirr and hypocist were dissolved by themselves in water and strained through a sieve, the sagap, ch, turpentine, op, pur, galban, were dissolved by themselves in the great pan and the sp, vin, added to prevent the fire from depriving them of their aroma and to facilitate the solution. The sagapen and galban were dissolved by themselves and strained into the great pan. A little honey was incorporated with them first, and the rest added with the species, and the whole beat well together for several hours. together for several hours.

Another, 49 lbs., was made on June 13, 1797, costing then

3s. 9d. per lb.

Mithridate is made on December 16, 1796; the forty-four ingredients, weighing 300 oz., cost 101. 15s. 114d.; the honey, attendance, &c., increased this to 13l. 7s. 9d.; and the cost per lb. of the finished product is 3s. 7½d. In the middle ages. Theriaca was always sold in tin canisters—indeed, an early indictment of a French coiner mentions that he used theriaca tins as part of his material. But in 1777, when there are fourteen tin pots for Theriac. venet. in stock, they are priced out "nil." In 1810 there are still 13 lbs. 5 oz. Theriac. Andrem. in stock charged at 4s. 8d. per lb., and $5\frac{1}{2}$ lbs. in 1811 at the same price. It was, we believe, in 1820 that the College of Physicians decided by a special vote to exclude it from the Pharmacopæia.

But we must hurry on, just stopping to notice that even in 1811 there were $4\frac{1}{2}$ oz. mil cpedæ præp. in stock at 6s. 3d. per oz.

It would not be difficult to construct from these volumes a table of prices for ninety years, 1776 to 1866, with very few breaks, and the table could not fail to be of interest, as will be seen from the few extracts we give from the "Cost-price Book," 1844-44:---

		1	1825	182	6	1827	1	828	18	29	1830	1831	1832	1833	1834	1835	1836	1837	1838	1839	1840	1841	1842	1843	1844
at at	morp er oz.	ohia,	60 0	40 0)* 6	s. d. 60 0 15 0 12 0	3F	0	32	0	s. d. 30 0 23 0 23 0	s. d. 23 0	s. d. 25 0 28 0	s. d. 23 0 22 0 20 0	22 6 20 0 21 0 8 4 and 1 0 ex'es	s. d. 21 0 20 0 9 8 5 0 4 6	s. d. 20 0 19 0 15 0†	15 0 14 0	12 0	s. d. 10 6 12 6 8 0 3 5 30 0 per lb.	25 0	s. d. 8 0	s. d. 7 0 6 6 25 0	s. d. 8 0 7 6 7 0	s. d.
T	of pot		9 0	9	0	- 9 0	9	_ 0	6	6	9 0	9 0	9 0	9 0	9 4 9 4 5 9¶ 10 0µ 9 0	4 0 and duty 9 0	8 0	8 0	8 0	8 0	_	_	_	-	-
The state of	quiu	iine,	25 0	24 (2	28 0 32 0 22 0 14 0	14 12 13	0 6 0	11 10 10	6 6 0	7 9 7 6	7 0 7 3 8 3	7 9 8 0	8 0	7 3 6 9 6 0	6 0 5 9	5 8	5 3 5 9	-	-	_	11 6	-	8 0 8 6 8 9	9 6 10 0
9	er oz.	and	_	1 1		-	1	5	1 1 1 1	3 2 1 0 7	1 8 1 6 1 0	1 0	1 0 1 2 1 1	1 1 0 10	0 9	0 9	0 9	10 0	8 8	0 8 0 636 0 536 0 8		0 43	0 4	_	1 0
r	te of po			1 '	9	-	2	0 5	1 1 1 1	3 6 2 1	1 0 1 6 1 9 1 8	1 6	1 6 1 5	-	-	-	-	-	0 9	-	_	_	0 6	0 6 0 9 0 11	0 1C <u>ā</u>
	per 1b.		4 6	1 2	2	_		10	-	-	- 17 0	-	3 4 3 0 1 3	1 2 1 4 1 2	1 2	-	-	-	4 9	3 9 3 4	-	1 8	1 9	-	-
ili	, per 1			13 (0 1	14 0 12 6 13 0 3 0	12	0	11	6	17 0	14 0 23 0 2 3		16 0 14 0 11 0 2 3	2 2	10 0 8 8 8 0	7 6		5 0	1 7	1 7	_	4 6	1 6	1 7
	ic, per l		15 0	3	1 D 1	2 9 2 5 12 0	10	0	9	0	8 6	8 6	8 6	8 6	8 6e	8 6	_	6 9		5 10	5 9 5 6	4 9	4 3 4 0	1 10 3 3 3 0	3 0

argain for the whole parcel, 18 oz. French in 72 bottles." er reduction of duty on opium, from 4s. to 1s. on pound.

n Macfarlane, North Bridge, Edinburgh.

nch.

son's.

b Ogilvie, North Shields.

c Irvine & Co., Glasgow.

d In bond.

e 1825 to 1833 the prices are for crystals powder, 6d. extra. 1834 to 1844: the prices are those of powder.

Whave scattered records of the prices of aconitine, 1s. 6d. in in 1834 and 1835, also 4d. per grain in the latter roand in 1836; 3s. 6d. per grain for "Morson's" in 1836 and 37; 107. 10s. per ‡ oz. in 1842. A atto Anglic "cake," Fullwood, is marked at 4s. 6d. and

r. 6 in 1839.

B ne and bromuret of potash are placed among the tests, not long the drugs in this series of prices.

Sal cinchon, essent, is taken in stock at 10s. per oz. in 1810 and 1811.

Copaiba was at 4s. 3d. per lb. in 1810, 5s 6d. in 1786, 1s. 10d. in 1780, 4s. 2d. in 1777, and 2s. 2d. in 1776.

Bals. tolu was at 6s. 6d. per lb. in 1811, 8s. in 1810, 7s. in

Cantharides was at 28s. per lb. in 1811, 14s. 6d. in 1810. Borax was worth 2s. 4d. per lb. in 1810, and 2s. 10d. in 1776.

THE CHEMISTS' RETAIL.

[SECOND ARTICLE.]

WE continue our adaptations from the work of Mr. Ad. Vomacka, "Unsere Handverkaufsartikel" (Leitmeritz, Austria).

BLOOD-PURIFYING TEA.

Rad. sarzæ			••	 	100
Rad. bardanæ (burdos	ck ro	ot)		 	100
Rad. liquiritiæ				 	80
Ligni guaiaci				 	150
Ligni sassafras				 	100
Foliorum sennæ		••		 	100
Fructi anisi stellati				 	15
Stipitum dulcamaræ				 	200
Seminis sinapis				 	1

Cut and break up all the ingredients except the mustard, and by a coarse sieve separate the large pieces; and by a fine sieve remove the dust. Coarsely powder the mustard and mix all together.

The proportion of sarsaparilla can be increased if a more active compound is required. The purifying properties of this medicine are sometimes questioned, but they are generally externed.

It is advised to put up this tea in tall, square, or cylindrical cardboard cases capable of holding 8 oz. Between each ounce a square of card fitting the case is placed, and the packet may be labelled as annexed:—

[We print this label on a smaller scale than would be necessary. With such a label a medicine stamp would be required.]

SPRING MEDICINE THE WOLL THE Blood-Purifying Composed exclusively of safe herbal medicines. A most useful remedy for all persons with a A most useral remety for an persons with a tendency to Gout and Rheumatism; very effective in old-standing obstinate skin complaints; serviceable in Liver Disorders. Hæmorrhoids, Jaundice, &c.; and for removing all Syphilitic and Scrofulous Taints. ≨z MEDICIN Z This tea promotes the action of the skin, of the kidneys, and of the digestive organs, and thus provides for the regular, normal tissue changes MEDI AUTUMN which keep the constitution healthy. ਰ DIRECTIONS. ZE Pour one plut of boiling water on each dose as divided (the packet contains eight doses) let it stand for half an hour. Then press and strain. Drink a small cupful as warm as possible night and morning. Name and Address. [Mr. Vomacka' omits to give the quantity of water, and apparently proscribes the infusion of each dose to be taken at one draught. This we think would be strong for an alterative medicine.] SUMMER MEDICINE AND PROPERTY OF THE PROPERTY O

FLORAL INCENSE.

Fol. rosæ, herbæ chenopolii (C. ambrosioides), ligni santali, florum calendulæ, lavandulæ, et pæoniæ (of each), 80; rhizom, iridis florent, 200; cort. cascar., 20; styracis liq., 20; resin. benzoes, bals. peruv., ol. bergam., ol. caryoph., ol. limon. (of each), 15; ol. cinuam., 3; ol. sassaf. lig., 1; spirit. bretfeld. (see next formula), 150.

The flowers and leaves to be cut up into small equal-sized pieces and sifted as directed in the preceding formula to separate large pieces and dust, and mixed. The orris-root, first cut up small, should be divided into seven equal portions. Of these, six may be soaked in different aniline solutions, and afterwards dried, and one left white. All these are then mixed with the flowers and leaves.

The storax is melted in a water-bath, the cascarilla, cut up

very small, is added gradually, the whole dried on shaplate until it can be rubbed by the hand into small articles. The dust should be separated from it by sifting. The coils and the Peruvian balsam are to be dissolved into feld spirit, and the solution poured over and well med the solid ingredients; and, lastly, the benzoin in a rail condition is well mixed with the whole.

This can be packed either in metal boxes or in cdicases. The ingredients should first be wrapped i particular.

paper. Label as under:-

FLORAL INCENSE for Parlour Use.

Sprinkled on a warm metallic plate and not allowed to char, this compound will develop a most pleasant fragrance, which will soon fill the room, and will last for a considerable time.

The odour is refreshing and wholesome.

Name and Address.

BRETFELD SPIRIT

D	ELTL	א עווגני	FILL	٠.		
Rhizom, iridis, flor,						230 m
Spirit vini conc.					2	,300 , ,,
Ol. limon						70
Otto rosarum					• •	60
Ol. neroli bigarade j	petits g	grains				70
Ether rubi idæi						1,
Moschi					••	1 5 ti

Digest the orris and the musk in 2,000 gramm's spirit in a moderately warm place for 10 days, fishaking. The flask in which it is digested should be with parchment-paper pierced with a few pinholes. It has sesential oils in the rest of the spirit and let the also stand for 10 days. Then press the first mixture the fluids: let the mixture stand all through the sum the cellar to deposit the resinous portion of the own Afterwards decant and filter perfectly bright.

Afterwards decant and filter perfectly bright.

It is very important that the most highly reetifing spirit only should be used. The perfume has a swill of the court, and may be used either as a handkerest fume or sold in a perfume-spray apparatus, or it may to diffuse a violet fragrance through a room by pour standards.

drops on a warm plate.

COUGH OR PECTORAL POWDERS.

The following formulæ are given as forming to we known remedies in Austria. No.1 is known as Pogadhni Catarrh Powder, and No. 2 is a popular preparation if under the title of Fiaker-powder.

	N	o. I.			
					30 ghu
					50
					1 j
					100 5
	••				25 g
	No	. II.			
					100
					30
					30
ıt.					50
		No	No. II.	No. II.	No. II.

In either case all the powders (except the anisee slot be separately dried before mixing. Both are said the deflectual remedies. The dose in either case is "as will lie on the point of a knife" several times daily.

0

1

COUGH SYRUP.

Ext. glycyrrh.	lepu	rat.	 	••	2	30
			 		8	30
Mellis depurati			 		20)0
			 		10	0
Aquæ lauro-cer	asi		 		:	25*
Ol. fœnieuli			 			1
Ol. anisi stellat.			 			1

is would be equivalent to about 32 parts of the aq. lauro-cerasi B.P.]

solve the two extracts in the honey in a water-bath, in ther perfectly cooling add the glycerine, the cherry-water, and the ethereal oils.

e label as below would render a stamp necessary.]

COUGH SYRUP.

For the relief of all Catarrhal Complaints, such as ughs, Colds, Hoarseness, and Soreness of the Chest.

Take one teaspoonful several times daily, with or thout the addition of a little warm milk.

This Syrup is of a nourishing character, and assists the digestive process.

Name and Address.

PECTORAL TEA.

Foliorum altheæ		 	 	100
Liehenis islandici	٠.	 	 	80
Herbæ millefolii	٠.	 	 	40
Capitum papaveris		 	 	50
Radicis liquiritiæ	٠.	 	 	100
Seminum auisi stellati		 	 	30

ingredients to be cut or broken up small and sifted,

PECTORAL TEA.

For all Catarrhal Affections of the Air-passages and Lungs, Conghs, Hoarseness, Obstinate Colds, &c.

Pour half a pint of boiling water over a small handful of the Tea and drink morning and evening with a teaspoonful of malt extract.

A cup of this Tea drunk hot will prevent the evil effects of a chill.

Name and Address.

CACHOUS AROMATISES.

Nutmegs, 7 grammes; cardamons, 5 grammes; vanilla, 8 grammes; eloves, 2\frac{1}{2} grammes; orris, 10 grammes; musk, 3 centigrammes.

Oils of peppermint, 32 drops; lemon, 20 drops; cinnamon, 6 drops; orange flowers, 12 drops.

Sugar, 20 grammes; liquoriee powder, 35 grammes.

Extract of liquorice root q.s. to form a pill-mass, from which form pil's of 5 centigrammes weight each. Roll in silver.

The important considerations in making cachous arc to get a good stiff mass and to silver the pills brightly. The oils should be of the finest quality, and particular care should be taken that the liquorice extract is of good flavour. It should not have any burnt taste.

The cachous are generally put up in round metal boxes, or they may be supplied in small glass tubes. The following is

suggested for the label:-

"CACHOUS AROMATISES.—For removing all unpleasant odour from the breath after smoking, and after taking beer, wine, &c. Indispensable before entering drawing-rooms, balls, &c."

PERFUMED CARBOLIC ACID.

Crystallised earbolic aci	id .	 	 50
Rectified spirit		 	 45
Oil of citronella		 	 5

Melt the carbolic acid in a water-bath and pour it into the spirit. Add the oil when cool. Filter if necessary. Label:—

Concentrated Perfumed

CARBOLIC ACID.

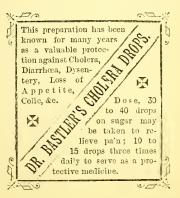
Prevents putrefaction and destroys all animal and vegetable germs. In consequence of its agreeable odour, this form of Carbolic Acid is especially recommended for purification of rooms.

N.B.—Carbol c Acid is Poisonous. If by accident any should be drunk, mix quickly 1½ ownce of lime [the plaster from the ceiling will do] and 6 ounces of sugar in half a pint of milk and drink at once. Send immediately for a doctor-

CHOLERA DROPS (DR. BASTLER'S).

Tinet. einnamomi	 	 		240
Ol. auisi vu¹gar	 	 		25
Ol. cajeputi	 	 		25
Ol. juniper bace.	 	 		30
Camphoræ	 	 	••	5
Etheris reet	 	 		150
Elivir acidi Halleri	 	 		10

Dissolve the oils and camphor in the other and mix with



the tincture and the acid. The tincture of cinnamon should be prepared with strong spirit or the oils may separate. [The label subjoined would necessitate a medicine stamp.]

as dered under Blood Purifying Tea. The label annexed we'd render the packet liable to medicine-stamp duty.

CARMINE.

For a cosmetic mix 2 parts of the finest procurable carmine with 1 part of the best French chalk. The latter facilitates the application of the carmine to the face. The powder may be supplied in one packet or in divided powders, 10 or 12 such in a packet. Label:—



SPIRIT OF PINES.

Ol. pini silvestris						100 grammes
Ol. pini pumilionis	• •					1 ,,
Ol. aurant, cort					••	25 "
Tinet, vanillæ			••	••	••	5 "
Ether acetic	••		• •	••	• •	25 gtt.
Sp. vini reet	••	••	••	••	••	200 grammes
Ol. cardamom						1 gtt.

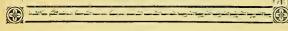
Dissolve the oils in the spirit; add the ether, and colour with a few drops of chlorophyll.

Only the finest pure oils and the purest spirit should be employed, and as the preparation is liable to deteriorate only a small quantity should be kept in stock, and all should be kept in a cool dark place.



for dwelling-rooms and bed-chambers as well as for sick-rooms. Sprinkled about the room the Pine Spirit diffuses a refreshing odour, which at the same time soothes the nerves and relieves the breathing organs.

Name and Address.



It should be sold in square bottles, not too full, well corked, and capped with goat-skin, wrapped in coloured paper, and labelled outside as above.

Eau de Javelle.

(French Bleaching Fluid.)

To bleach linen dilute this fluid with an equal quantity of water, and with the mixture moisten the linen. But the liquor must not be in contact with the linen for longer than fifteen minutes; at the end of that time it must be well rinsed in fresh water. To remove fruit or wine stains or iron mould, wet the spot with the liquor and wash it thoroughly in clean water when the stain has disappeared.

N.B.—This Solution is Poisonous. If by accident any of it should be drunk, administer a large quantity of Oil and send immediately for a doctor.

COSMETIC POWDERS.

Light earbonate of magnesia	 	 5
Oxymuriate of bismuth	 	 10
Precipitated chalk	 	 10
French ehalk	 	 15

Mix and sift. The powders should be selected where for their purity and whiteness. To obtain a speal French chalk take 1 part of ordinary (tailors') French add 2 parts of vinegar, and let them stand for on days, frequently shaking, filter and wash well in wall hundred parts of this prepared French chalk and 12 parts of this prepared French chalk and 12 parts of the mount of the m

The oxymuriate of bismuth (Blanc de perl I d'Espagne) is obtained by dropping a solution of transismuth in diluted hydrochloric acid, or in a weak schechloride of soda. The precipitate is well washed allout of the sunlight. For lower qualities of cosmess phate of barytes is sometimes substituted for the s

The most perfect fineness of the powder is essentic T ean best be secured by carefully sifting the mixture to silk.

There are three usual shades of cosmetic powders whose, and yellow (Rachel). The formula given above the white, which is made more brilliant by the addording per cent. of ultramarine. For the rose tint an addording per cent. of carmine, or decrease yellow employed. The cosin may be dissolved in spirit beforming. The yellow (Rachel) tint is obtained by the addording per cent. of yellow einnabar. The white cosmeting day use, the rose for night, and the yellow is intended by the uncertainty.

Suitable perfumes are equal parts of orange-flower a lemon oil for the white, otto of roses diluted for the and ylang-ylang oil for the yellow; but this choice fumes is quite a matter of fancy and fashion.

Such cosmetie powders should be put up in elegant in card or metal boxes, and labelled with some fance the tint being added in small characters. Below minded added words similar to the following:—"An elegant extremely delicate complexion powder, quite invisible face, perfectly harmless, and imparting a high degas smoothness, softness, and fineness to the skin."

EAU DE JAVELLE. LIQUOR SODII HYPOCHLORITI.

Caleis ehloratæ			 	• •	100	gram
Aquæ communis			 		3,000	19
Sodge earb, (washi	ng se	oda)	 		125	

Put the ehloride of lime in a tall che vessel which is provided with an easily round able cover. Add water to make a stop paste, and continue to pour in water, stimulated a litre has been added. To this post the soda previously dissolved in the receive the water, stirring well all the time. The water, stirring well all the time. The vessel, let it stand for five hours, to dee and the fluid or filter it direct through the time with a little cotton-wool into a mouthed vessel. The preparation should kept in a cold dark place.

This is not an exact reproduction of de Javelle, but it is a cheaper and by article.

[Supply it in dark bottles which are likely to be drunk from, and label in annexed.]

MACY ON THE HIGH SEAS AND IN STRANGE LANDS.

BY FRED. E. JOHNSON.

The few months ago I addressed to you a few notes upon he "Life Aboard an Emigrant Ship,' being a first trip to he alia, which it pleased you to publish, and at the same in you expressed a wish to hear further from me. Having made the voyage to the Antipodes, and having seen neard many things likely to interest the chemist and rist, I will submit a few lines of my reminiscences to olor publication in your inestimable journal, if you deem

h latter worthy the space. ler a month's stay upon land, I received a letter from ormer medical chief, Dr. Huxtable, offering me the berth f sistant and dispenser to him, aboard the steamship pintment a few days later, with instructions to report If at Plymouth on September 9, 1884. On reaching outh the ship had not arrived, and I employed my time profitably, exploring this most ancient port, and almost tted to see the Aberdeen cross the breakwater, so cond was I with the balmy air and kindly folk of Devon. I ried to the quay in order to get off with the first boat, one is naturally anxious to see the ark which is to buoy haver a forty-day flood, and I am glad to say I was not impointed. A more graceful-looking ship than the deen is not to be found, and, though small, she appears a le of weathering any storm. The decks were all conns 1, stores of all kinds lying about; but this is always the as with a ship about to proceed on a long voyage. Amidst hilothing could be done, so, after a look all round, I went le again, and prepared a supplementary list of drugs, the doctor judged necessary; and very rightly, too, ort the only port we touched drugs were outrageously

Aberdeen is the property of George Thompson & Co., if berdeen, and is the pioneer steamship of the line, being the tons burden, commanded by Captain J. Barclay, with a of seventy-five hands. Her engines are of a new type, triple expansion," burning a remarkably small quantity al, and making thirteen knots an hour or more with a a trable breeze. The saloon was small but cozy and composed out the common of the common of

pronderated in every compartment.

e emigrants, numbering 611, were mostly of an exceingly respectable class, and of all imaginable callings. If two matrons had under their charge some 260 single wen, and, with the combined advantages of a very airy sing-compartment, aft of the engine-room, and of ample accommodation, kept them in very good health. Two iron g s divided this favoured grove from the rest of the ship, we single men and married people congregated. Of the form only eighty-eight came aboard, and such a small liber was, consequently, easily managed. The married ple, comprising a Scotch and Irish colony, with a sprinkling oligibish, had a large compartment forward, which was k t scrupulously clean with sand and holystone during the vole of the passage.

t noon, on Thursday, September 11, 1884, all this crowd, their bag and baggage, are conveyed by the Smeaton at the depôt to the Aberdeen, and for a while all again is custom. Every one has at last gained his or her bunk, has taken possession of the table and utensils set aside this or her use, and the captains of the messes have been set of from the galley, so that all are happy and quiet is cured. The anchor is weighed, and we steam away from old England once again, strange to say with few regrets, nost of our emigrants dream of an El Dorado, which is

n to be found in Australia.

found the dispensary a temporary structure amidships, as was at first not at all pleased with it, for a heavy sea wild have left it a wreck if it had left it at all. Happily we have no weather so rough as to necessitate a retreat from my wild conshop.

The first few days one is busy, instructing the folk in the use of the many things which, as landsmen, they had not seen before, more particularly holystone, which is truly a lapis divinus. The constables have to be instructed in their duties, and the compartments apportioned out, so that each is responsible for the order and cleanliness of a part. After the Belgravian experience this ship scemed very small, and my duties at first seemed lighter, but I had forgotten that we had a larger proportion of delicate females than heretofore; the sing e women had, shortly after our departure, some two score bottles of physic prescribed for them in a day. Sore throats, colds, hysteria, and constipation were what we had chiefly to contend with, and my mistura purgans, pro tussim, and rhei were continually requiring Unfortunately, in each compartment there replenishing. were one or two individuals more fit for a convalescent home than an emigrant ship, and how such invalid or lackadaisical folk ever got assisted passages, or, having got them, how they fared in a colony where, of all things, push is wanted, is beyond my ken. Medicine is also very popular aboard ship, because given in conjunction with some comfort or another; again, it is something to do and marks the time o'

We had very rough weather for three or four days, and very few people ventured on deck until the 16th, when we made the "Salvages," a group of rocks between the Madeiras and the Canaries. At mid-day glimpses of the Grand Canary and Teneriffe were caught, and at sundown we ran close by the latter, the peak being unfortunately enveloped in clouds. Even thus it looked grand, for the clouds which capped it formed themselves into any number of imaginary Nothing of interest occurred until September 24, when some bolts in the crank-shaft coupling gave way, and we had to stop for about eighteen hours. Sharks and other ocean-pirates soon put in an appearance, and as another opportunity was not likely to occur we commenced sport by attaching a piece of pork to the log-line and floating it in the water. A shark approaches, bites, and, seizing the right moment, a running-noose is let down over the finny monster; we haul tight, and pull him aboard. Oh, what screaming! They are very violent when on the deck, and whip it with their tail, which is chopped off; then he is made to swallow a handspike, and thus receives his quietus, to be consigned to the deep, where he doubtless becomes the prey of his kindred. Two were so caught. Not a little curious were the suckers parasitical upon the shark's hide, having a disk-like appendage below the head, by which they adhere to their mighty host. Then, again, how pretty are the pilot fish, which always accompany the shark, but are very difficult to capture!

For a day or two we hear faint rumours of something wrong in the engine-room, a stay at St. Helena is thought probable, and on Sunday morning, September 28, we see "The proudest sea-mark which o'ertops the waves" looming in the dim distance, and at 11,30 we east anchor very close in shore, there being deep water up to the edge of the stupendous cliffs rising almost 1,000 feet sheer from the water, and surmounted by the Ladder Hill Fort.

From the sea this island does not give one an idea of

From the sea this island does not give one an idea of extraordinary fertility, the rocks being bare and evidently of volcanic origin, a few pine trees on the higher hills being all the vegetation visible, while the town nestles between the hills, it being, in fact, one long street up the valley. It does not appear to be very strongly fortified, although the Ladder Hill Fort and the Redoubt seem perfectly inaccessible.

We stayed here five days, during which time the engineers were working night and day putting in a new crank-shaft, with assistance from H.M.S. *Opal*, which was at the time lying in the roadstead.

When one visits an island so rarely spoken of nowadays it is allowable to say a few words about it, and, as I took the opportunity of going ashore, I will give you my experiences.

Landing from our small boat, we are at once accosted by a number of the native small fry of all colours, from deepest ebony to white, not pure, but with a slight off tint, neatly dressed in cheap Manchester goods, and who run after us begging for a penny the whole of the way. We cross the bridge over the moat and under the gateway, where we find ourselves in a kind of square, on one side of which are the Government buildings, Post Office, &c., and on the other the cathedral, a poor enough edifice. Passing up a wide track

called the main street we come to Mr. George's pharmacy, under the trees, where I have been directed to leave my order. This shop, a fairly large one, not over clean, appears to be quite a rendezvous for the islanders, the weekly paper emanating from it. By the way, this is not saying much, the St. Helena Guardian being little more than a double sheet of waste paper covered with quack-medicine advertisements, and for which the poor deluded yamstalks pay fourpence.

The drugs were sent aboard, and proved of very good quality, except in the case of the disinfecting powder, which was damp, green, and innocent of available chlorine; but judge my surprise on receipt of a bill of 8l. for what at home might have been obtained for 3l. Salts, linseed-meal, and chloride of lime were charged 1s. 3d. per lb. all round, although I took 28 lbs. of each, the other goods being dear in proportion. We then retraced our steps and visited the other pharmacy, kept by a Mr. Jackson, who presides over a very well-arranged shop. He is evidently a very practical man of business, and does not believe in a sleeping partner merely, for one half of his shop is set aside to Mrs. Jackson, who sits resplendent amidst a general drapery stock. A well-known house in London snpplies both drugs and drapery to this most enterprising firm.

I may now throw physic to the dogs, and turn to pleasanter things. We begin by ascending that world-famed Jacob's Ladder, which leads to the Fort, this name being misleading, since it is a substantial wooden stairway guarded by iron railings, having 699 steps, and rising at an angle of 39° to a height of some 600 or more feet. Making their way up with us were two coloured message boys, who run up and down nearly all day long, and seem to like it; coming down they simply place their bodies lengthwise from one rail to the other and slide. The mountain side is covered with cacti and the tobacco-tree, the yellow flowers of which have a most disgusting odour. Once up in the barracks we soon make friends with a fine Irish artilleryman, who shows us over the Fort, from which lovely views are obtained of the ships in the roadstead and of the surrounding country. Our military friend then volunteers to be our guide to the island, to which we gladly agree, and, having obtained permission from head-quarters, we make across country for Napoleon's tomb, which is situated about the middle of the island. Truly this is a lovely spot, and worthy of Byron's praise. Our pathway is first along green mountain slopes, then through sheltered vales, where streams meander to the sea, their banks thick with magnolias, lilies, and many other beautiful blossoms. Now we are crossing a piece of wild country full of prickly pear and aloes, these plants being the sign-posts of a desolate, good-for-nothing soil. The prickles from the cacti cause frightful irritation when they get in one's clothes, and, unfortunately, it is difficult to get along without brushing against them. From this part of the island all the high places stand out boldly, especially Diana's Peak, towering to a height of 2,704 fect, its sides clothed to the summit with rich sub-tropical growth. We are now overlooking the valley in which Napoleon's body once lay, and in descending we can admire the beautifully-proportioned Norfolk Island pines and Cypress trees, with which it is surrounded. There are nonc of the willows left, they having either been blown down or destroyed by relic-hunting We write our names in the visitors' book, and find it extremely interesting to turn over the pages for years back and see the many (in some cases familiar) names of people who have visited this resting-place of the sometime terror of Europe. A plain slab is all that marks the spot, surrounded by tall iron railings, and beside it a spring of deliciously cool water, which, it is said, the great Empeoror very much affected. However, five years of dull monotony and more than military supervision, a gun being always fired on his leaving his honse of Longwood and the signal passed through the island, were sufficient to kill him.

To-day very little of interest is found in St. Helena, except in that referring to Napoleon, and even his residence is stripped of all which would make it worth a visit. Longwood is a very humble structure, built mostly of wood, but very pleasantly situated about four miles and a half from Jamestown.

We return by way of the high road past the Governor's honse, into the grounds of which we trespassed, and found them very pretty, and commanding magnificent views from all sides. We lunched at a hotel near here, the landlord of

which had not, so he assured ns, set foot into J nestors some three miles off, for twenty years or more. This was do very well to show the simple tastes of mo of the St. Helenians, who are descendants of African slave the and brought here by the ships employed in suppressing slave trade.

The town is very lively at night, soldiers and the walking about, mostly black girls, by the way, but cases very good looking, and speaking excellent Entitle

St. Helena is $10\frac{1}{2}$ miles long by $6\frac{1}{2}$ broad, and ha at of 47 square miles, with a rich volcanic soil, and a neture remarkably equable, the mean being 61° Figure einchona, coffee, and many other useful plants be shown to grow well here, and the island is said toor the finest vegetables in the world, and might supplemore flocks than it at present possesses. Why no let these advantages? Instead of this, from year to are grow worse instead of better; trees are cut or blown wnever replanted, and, in fact, the whole place seems of a pology for so far digressing, I will rejoin the letter which sailed for Sydney on Friday morning, October.

We now looked forward to a long spell of rough an and decided to get as much amusement as possible illewere able. A newspaper had been running with greau from the first weck, and caused no end of fun, estimated in the emigrants in the matter of Australian fe. The Aberdeen Times was printed in book form in Sydy, gave general satisfaction, both to myself (the editoum the third officer (the artist) and to the subscribers.

Frequent concerts, Christy minstrels, and a spell, with a show of work by the girls, afforded amusement a but the excitement of the voyage was the election, repiece of fun. R—— and myself were nominated can late and in due course we sent forth our addresses, at we placarded in a variety of ways all over the ship, hour Radical and I in the Liberal-Conservative interest. Veat made a speech from the bridge, supported by our contituend then took a poll. I was returned with a large nomination amongst the married people and single men. We the proceeded to female suffrage; but, as I had, in my address speech, disapproved of women's rights, how could I exput obtain their votes? and the Radical was returned by them women with an overwhelming majority.

Our passage across the great Sonthern Ocean waverough, and put an end to most deck amusements, all we found a mild form of excitement in hanging the astern, in which, perchance, an unwary bird be contangled. The doctor thus caught one of the pretty the petrel tribe, the Cape pigcon, a beautifully marked like a huge butterfly. Mollymauks, albatrosses, Cape and other ocean birds followed in our wake the wholey and formed food for thought and speculation.

We sighted land at Cape Nelson, west of Cape Otwo October 30, and had it in sight almost the whole wayu on Saturday noon (November 1) we steamed into Port is son. I never saw the harbonr so gay—a regatta day—a at the boats passed under our stern they greeted our emigrants with hearty cheers. Fortunately, some ease small-pox occupied the quarantine ground, and we make the courant of the steam of the steam

We had reached Sydney with as many souls aboard as we started, there having been four births and four dea The twins born at St. Helena were weakly, and died shill after; the other deaths were those of a child under twinonths, and of an old man from heart disease.

During the following week we lay out in the stream, in that time most of our emigrants got placed, there be in the case of the girls about three mistresses to servant. Married couples got very good berths up-coup on small farms and stations, and single men had all offer employment, but I am sorry to say many preferred hang about town to making their way up-country. With strictest adherence to truth it may be said that no man will work need starve in New South Wales. At prelabourers and navvies are wanted, and men with capital, not professional, or men belonging to that all too plent class of clerks and shop-walkers.

I will once more take np the symbol of our profession regretting that mortar and postle are so little used in

onies, the chemists being dispensers and retailers of goods diplode at home; but they are not pharmacists.

The drug trade in New South Wales appears to be in the mode of one or two large firms in Sydney, who, having used their men, can supply them with what quality of ods they like. However, the chief druggists, such as into the mode of th

The affairs of the Pharmaceutical Society were in somenat of a revolutionary condition, the old president having fired and left the council. Their library seems to be about e best of its kind in Australia, and it was my privilege to ke a small donation to it from Mr. T. H. Hills, which was ceived with many thanks, more especially as it came from

ex-president of the home society.

Mr. Pinhey, the honorary secretary, was very busy during y stay in his capacity of deputy-coroner, a fearful amount work being left to him, the coroner being engaged on veral abortion cases, in which one of our society was unformately mixed, and which was creating quite a stir in dney. It is very much to be regretted that a man who is posed to be fairly educated should lower himself to such legree that he runs a fair chance of the halter.

The *Orient* sailed from Sydney Cove on November 22, d, staying at Melbourne five days, gave me an opportunity seeing any Victorian friends, and becoming better acainted with the city, and certainly the more one sees of it

e more one likes it.

The bold way in which the streets are laid out, and the tent of the public gardens, strikes an Englishman; for, nichever way one walks, he is sure to come across some assant demesne or other wherein he may lounge and be ppy. I visited the Melbourne Hospital, and found it a odel of cleanliness and order, the kitchens and laundry ing specially worthy of notice; and in the museum a urful but wonderful specimen of "Elephantiasis" of a un's foot amputated above the ankle. The University is not implete, but bids fair to rival that of Sydney; the Wilson all, recently built, being a superb structure. The Natural istory Museum is very fine and tastefully arranged, and he may study here without one's books, the walls forming a ever-open volume. The University grounds are certainly cturesque, but want culture—the gardener must be on the bust," as they say here. The Royal Mint is well worthy a sit, which I made, seeing the process from crucible to peret and beautiful coin.

Mr. Francis, whose acquaintance I made on my last visit,

pok me in hand this time, and showed me all he could to nlighten me concerning the state of the drug trade in ictoria. He himself has recently established the nucleus f a first-rate pharmaceutical laboratory, and is the only harmacist I know here who makes most of his own preparatons. I was taken to the offices of the Pharmaceutical ociety of--Victoria, no! of Australasia forsooth. ar-reaching title has given great offence to the kindred ociety in the older colony whence I came, and I had a most ateresting conversation with Mr. Shillinglaw, the secretary, nd Mr. Francis, who justified its assumption by telling me hat its members were scattered all over every colony. Indiidually, I think it bad taste to have taken such a title before conference had been held of the pharmacists of Australasia. he latter is a very wide term, and means federation, a most esirable object, but not yet attained; and why should lelbourne, a town of yesterday, put on the purple now? eing on the subject of intercolonial grievances I will air The magnanimous Society of New South Wales as been in the habit of accepting the certificates of the ster Society at Melbourne as their own, and have admitted olders of such to membership. Has Victoria reciprocated is? No! and a poor fellow who passes in Sydney must rforce go up again at Melbourne should he wish to cross le border. In justice I must say that the Melbourne Society ave a very good case, as there is no Pharmacy Act in New South Wales, and consequently the examinations have not the force of law. Besides, no Preliminary examination is required, whereas in Victoria it is compulsory. From per sonal observation, as far as the written papers of the Sydney examination go, they are quite stiff enough; the only question is, do they demand a sufficiently high standard? I am sorely afraid I am trespassing on very dangerous ground; pharmaceutical politics in Australia are likely to become in course of time very lively indeed.

Well, to return, it is surprising the strides Melbourne and everyone in it make. The Pharmaccutical Society possesses a handsome building, standing upon a plot of ground granted by the Government, containing a lecture hall better than that at Bloomsbury Square, and a laboratory, well fitted in every detail, to accommodate a score or more pupils, with ample room for extension. A fair library and reading-room, and extremely good materia medica cabinets conclude the Mr. Shillinglaw informed me that they were negotiating with a gentleman in London, the son of a well-known West-end pharmacist and a Square prizeman, to undertake the duties of Professor of Chemistry and Pharmacy, and that all they were waiting for were the necessary funds, which it is hoped the Government will find. Should they succeed in getting this gentleman to Melbourne I am sure he will never regret it, the Society showing every sign of earning, if not justifying, the title of the Society of Australasia. We left Melbourne on Nov. 28 for Adelaide, where I much regret the stay being so short—only a day—so that there were no opportunities of making the acquaintance of any of the pharmacists. I really think Adelaide is the eleanest of colonial cities; the streets are wide, the buildings all new and handsome, the University being a very model. The Botanical Gardens I spoke of before, with its glorious old After leaving Adelaide a few days of rough weather, during which we caught our last glimpse of land off King George's Sound, and we round Cape Lenwin; being then fairly launched on the bosom of the pacific Indian Ocean, we settle down to a quiet do-nothing novel-reading kind of existence for a few weeks, and are undisturbed by the elements, with the exception of a searching and scorching sun and a day or two of sickly, oily calm on the water. Cape Guardafui is sighted on December 23, and we round it into the Gulf of Aden, whose fortress we make the next day, and pass on through the Gates of Tears to spend Christmas week in the Red Sea. The change of temperature is so great that we all feel colder even than at home in winter, and the evenings in the Red Sea were miserable. We reached Port Said on the Sunday morning, and had passed as far as Ismailia by sundown, where we anchored, but I was not among the shore-goers, although the attractions were an Arab wedding and fête. From the canal this city looks beautifully wooded, and the palace of the Khedive is a very handsome building of stone.

We reached Port Said at six in the evening, and immediately the coal barges pushed off and came alongside. all make haste to get down to the gangway and strike a bargain with the Arab watermen to get ashore out of the way of the noise and dirt of the coaling. A more diabolical scene cannot be imagined than this coaling at Said. Picture a huge square black barge, grimly lighted with coke fires all around and manned by hundreds of the sablest imps in creation; there they go, running up and down the planks with their load of black diamonds to the tune of some weird Arab song. On shore, one, Hassan Gczi, undertakes to convey us to the chief places of this Franco-Egyptian city, and begins by taking us to all the bazaars, where he tries totempt us with all kinds of wares, clean and unclean, upon which he will get a commission. The streets are wretchedly dirty, and the people dirtier, especially down by the Arab bazaar. Before we leave for the ship the town has assumed somewhat the appearance of a wild orgie, everyone smoking, drinking, and cursing to their heart's content. I looked into the poor pharmacien's shop as I passed to the boat, and there he was with his assistants, working alike night and day, and went aboard more contented with my lot. The Mediterranean was beautiful, but cold, very cold; and one only half appreciates even Naples in such weather. We were there in the evening, but I did not get ashore, contenting myself with listening to the bargaining over the ship's side, and to the serenades from boats. We passed the Straits by day, and enjoyed the scenery, the Morocco coast being very grand; on the one hand may

be seen the town of Ceuta, while on the other our grand old rocky key stands off from the Spanish main as if it would have nothing to do with it. The country along to Tarifa is simply superb, and one never tires of gazing. We are soon made acquainted with the Atlantic rollers, and after no little tossing in the Bay of Biscay we are safely brought to port at Plymouth on Saturday morning, January 10, 1885. Thus ends my second voyage, it having taken but four months.

A PHARMACIST'S NOTE-BOOK,

DISINFECTION BY SULPHUROUS ACID.

GREAT number of ailments which in former times were considered to be non-infectious are now looked upon as contagious, and it is believed that the time will come when disease will be completely prevented by hygienic, prophylactic, and sanitary measures. The art of the physician will then be needless, and the duty of keeping the population in good health will devolve upon the pharmacist and the sanitary

The DISINFECTION OF SCHOOLS has become a matter of paramount importance. It is placed almost beyond doubt at the present time that phthisis is contagious, and due to a minute bacterium (bacillus), which, like other septic bacteria and the tuberculous matter of the lung, can be communicated from the human being to other animals, such as the guineapig, so as to cause death in a comparatively short time. This septic matter has been made use of to discover which disinfectant is the most to be relied upon for purifying the air of schools after ontbreaks of fever, &c. Slips of paper were impregnated with the tuberculous matter from the lung of a patient who had died of consumption, and were used for inoculating small animals. But before using these slips they were submitted to the action of various disinfectants, which, of course, interfered more or less with the inoculation. Now, of all the substances thus tried, the fumes of burning sulphur, i.e., sulphurous acid gas, proved the most efficacious, and the slips which had been exposed to these fumes produced no effect at all when used to inoculate the small animals referred to.

Dr. Vollin, to whom we owe this useful experiment, strongly recommends the process of burning sulphur for disinfecting schools, barracks, wards of hospitals, &c.; and, whether there has been any epidemic or not, the process should be

carried out at least once a year.

A committee of the Belgian Academy has since arrived at the conclusion that sulphurous acid is preferable to any other disinfectant in this respect, and at Paris Professor Dujardin-Beaumetz has lately arrived at the same conclusion, namely, that sulphurous acid is the best of all disinfectants.

To disinfect a room or a hospital-ward in this manner, all the doors and windows being closed, about 1 oz. of sulphur for every cubic yard of space should be burnt, and the room kept closed for twenty-four hours after lighting the sulphur. The best means of avoiding danger from fire is to employ two earthenware vessels, the upper and smaller one containing the sulphur with a little spirit sufficient to cause it to ignite easily, the lower one containing wet sand. The burning of sulpbide of carbon has been proposed, but it requires a special apparatus, and is then by no means free from danger.

PURE GLYCERINE.

The late eminent Professor of Chemistry at the Paris School of Medicine did good service when he drew our attention to the quality which MEDICINAL GLYCERINE should possess in order to prove really serviceable as a therapeutic agent. Under the name of "pure glycerine" it is by no means uncommon to meet with glycerine which bas been purified by chemical means after its manufacture on the large scale; and this glycerine, when applied to the skin, produces irritation instead of the calming action which we expect from it. This irritating glycerine, though neutral to testpaper, contains certain compounds of formic acid or oxalic acid. When 100 cubic centimetres of it are treated with sulphurie acid, they yield 8 cubic centimetres of a gas which is found to consist of equal volumes of carbonic oxide and carbonic acid. Equal volumes of strong sulphuric acid (1.83 sp. gr.) and glycerine arc mixed. The mixture becomes heated and turns slightly brown; but it remains cle and yields no gas if the product so tested be appropriated medicinal use. In therapeutics only the perfectly proglycerine which will stand this test should be used; the glycerine purified by distillation. Glycerine which been adulterated with sugar, gum, &c., is casily detecd well-known tests.

IMPROVED CINCHONA BARK.

No one can doubt for a moment that we live in an e improvements. Almost everything which is essential to comforts of life is susceptible, nowadays, of "improve in of some kind. We all know how wines are improved, the home and abroad; beer also receives bitter or thirst-/in/ compounds which the bonest brewer appears to have verlooked; new milk is improved by the addition of war i "raise the cream," or for other purposes; butter is ai ameliorated by an addition of margarine; preserve are "flavoured" with a mixture of carrot-pulp and compand ethers, which the ingenuity of the modern "organic che st has placed at our disposal. In fact, improvement see; t be rampant everywhere; even home-grown tobacco can:s improved at Hamburg as to pass into "Havana cigs" which possess a flavour that connoisscurs assure us ex be only obtained in the island of Cuba.

But what will the druggist say to IMPROVED CINCINA

BARK?

There are such things as cinchona barks of poor quty, and some that are to a certain extent worthless. Can exnot be improved? Is there no means by which the pri of these inferior barks can be brought up to that of the strate article?

It is only too true that a certain kind of "improvem" has been effected of late years. This is done by means a refuse product, known to chemists as quinoidine, whichin be obtained at a reasonable cost from manufacturer of quinine. The inferior barks are moistened with an alcolic solution of quinoidine and immediately rolled in eincla powder. The device is undoubtedly ingenious; it is diffilt to detect the sophistication; but it can be detected, and any of our readers would like to know the process by will this is done we shall be happy to supply the information

these pages.

After all, there is not very great harm done in the weby the introduction of "improved" bark; it is the princ of "improving" that is wrong. Unsuspecting dealers thus caused to pay considerably more for their produce tl it is worth; but as quinoidine really possesses febrifi qualities, though not so pronounced as those of quinine appears, from a purely medical point of view, to be a v ingenious method of getting rid of this superfluous quir dine. The harm done to the manufacture of quinine or be tinctures is not so great; but as regards the manufacturer sulphate of quinine, he not only pays more than the bark worth, but the whole of the added quinoidine goes into residues, which gives to the whole concern not only a franc lent but quite a comical aspect.

SOAP LINIMENT.

We never yet met a pharmacist who had not been bother in the preparation of SOAP LINIMENTS, and we were tru pleased, for the sake of our younger brethren, when we m with some remarks published a short time ago by M. Méb of Paris, on this subject. It was, bowever, an America pharmacist, Mr. C. H. Wood, who first recommended the exclusive use of oleate soaps for this purpose. He early pe ceived that whenever the soap used in making a linimer contains stearates or margarates, its alcobolic solution become cloudy on cooling.

Some time back the French Codex prescribed the use of soap made from the marrow of beef in the preparation (opodeldoc, and we know that the transparent soaps whic are met with in perfumer's shops are all derived from anima fats, and are all more or less rich in stearine and margarine But according to M. Méhu, oil of sweet almonds is one of th best substances that can be employed for making soa destined to be used for liniments.

There is, however, another important consideration; the soap must be nell dried in order that we may always operate upon the same weight of substance. Now, soaps contain about 40 per cent. of water more or less; they may vary from

e shop to another to the extent of 5 or 10 per cent. When ap is dissolved in alcohol this water is added to the spirit, ich thereby becomes considerably diluted, and this is the use of numerous failures in the preparation of soap lini-

SULPHUR FOR SULPHURIC ACID.

One of the greatest of modern chemists, the late Professor mas, once said that the degree of civilisation or of procrity to which any country had attained might be measured th tolerable accuracy by the quantity of sulphuric acid assumed in that country. We never had any doubt of this. fact, no one can fail to see that everything upon which it modern comforts depend is based upon sulphuric acid. 1e whole of pharmacy, medicine, industrial chemistry, and thousand branches of manufacture, would dwindle away to mere nothing compared to what they actually are if we were prived of it.

But as civilisation goes on increasing more and more sulphur

consumed to form sulphuric acid.

If we put aside the SULPHUR mined in Sicily, and the vast posits not yet worked in Iceland, we really do not know here any abundant supply of this valuable substance is to looked for in nature except in deposits of iron pyrites or undic now worked in Norway and Spain on an extensive ale, as well as in some parts of America and Ireland. But ich deposits do not appear to occur very frequently on the irth's surface. Meantime, we are extracting sulphur from ie soda residue, and so working it over and over again in the rm of sulphuric acid.

In spite of this wonderfully ingenious undertaking, the portance of which will increase as years roll on, we notice ith some pleasure that an important discovery of sulphur s been made in the little island of Saba, about 110 miles uth-east of St. Thomas. It is a volcanic island, that is, of cleanic origin, 11 miles in circumference, and rises 2,800 feet t of the ocean. The sulphur as mined in Sicily averages out 30 per cent. of pure sulphur; that of the island of ba is said to be considerably richer! This island belongs the Dutch.

Of recent years one or two deposits of sulphur have been und in California, and the soil round Clear Lake yields ont half its weight of pure brimstone, which is largely orked, and now supplies manufactories of sulphuric acid ected in the neighbourhood.

THE SANITAS COMPANY (LIMITED).

HE annual meeting of the Sanitas Company (Limited) was held at the works, Bethnal Green, on February 17, Mr. . H. L. R. Moll in the chair. From the report, and from the pairman's speech, it appeared that the balance to the credit i revenue for the past year was 5,201*l*., their saleshich had amounted to 19,267*l*.—having exceeded those of 883 by over 36 per cent. Their products continued to be really appreciated. The dividend of 7½ per cent. now prosed would make 12½ per cent. for the year. The debenture ebt of the company had been paid off during the year by he issue of shares at a satisfactory premium. The directors ad purchased from the patentees the remaining two-fiftlis of he foreign patents and trade-marks for Sanitas, and already favourable arrangement had been entered into for Belgium. Mr. Bosanquet criticised the references in the report to the urchase of the foreign patents, and asked what had been aid and to whom. He might be disposed to question the egality of the transaction.

The Chairman said the remaining property in the foreign atents was held by Messrs. Kingzett & Zingler, and the irectors had paid to those gentlemen 1,2001. in cash and 00 shares each for their portion of the exclusive rights. Mr. osanquet moved that this particular portion of the report be ot adopted, hut only two other shareholders supported him. he Chairman, in answer to other questions, said the debenne holders had a right to be paid off with a 50-per-cent. onus, and this had been obtained by selling 7,000 shares at premium of 50 per cent., a City firm of brokers having adertaken to place those shares at that rate. The report as adopted, the dividend declared, the directors re-elected, and yours of thenke were record of the which the shareholders. ad votes of thanks were passed, after which the shareholders and certain invited guests were entertained at a sumptuous

ncheon.

GLYCERINE AND ITS USES.

IN the months of March and April, 1883, and in January and February, 1884, we published papers which were read before the Chemists' Assistants' Association by Mr. F. H. Alcock, entitled respectively "Glycerine and its Applications to Pharmacy," and "Glyceriue and its Impurities." Mr. Alcock has continued his observations on this fruitful subject, and we have lately received a paper read by him before the Midland Chemists' Association, at Birmingham, on February 25, 1885. From this we extract a number of useful suggestions as to the uses of glycerine, in addition to those previously published.

GLYCERINE IN TOILET PREPARATIONS.

Glycerine is perhaps well known to be a useful addition to the sulphur type of lotion for the hair, as the sulphide of lead which is supposed to be formed renders the hair almost as stiff as a board without some such additiou.

A very recent hair-dye, and oue which is said to be good, may be made by dissolving freshly-prepared ammoniotartrate of bismuth, or the ordinary scale citrate of bismuth and ammonia, in weak glycerine, and mixing this with a solution of hyposulphite of sodium in glycerine and water, and finally diluting with more water.

Teeth-lotions have also come much into use, and of themany formulæ published the following is a type:-Tincture of quillaia, eau-de-Cologne, water, borax, glycerine, with colouring. Such a combination is as excellent for its purpose as it is elegant in appearance.

Almost all cosmetic solutions are greatly improved by the addition of a little glycerine. Of these we may name freckle-lotions, zinc-oxide and rose-water lotions, calamine lotions, &c.

Liquid starch glosses and finishes have glycerine in them as a sine quâ non. Here is an example from the Popular Science News:—Spermaceti, 1 oz.; gum arabic, 1; borax, 1; glycerine, 2½; water, 14½; perfume, q.s. Three spoonfuls to be added to about 4 oz. of boiling water.

Lime-juice and glycerine inseparable may easily be made by the subjoined formula, but I cannot say how much will be the percentage of glycerine. A saturated solution of borax should first be prepared. Here is a note I made a long time ago:—"One drachm of powdered borax to be dissolved in 213 drachms of distilled water, and during solution warmed slightly to keep the temperature just a few degrees above that of a summer's day, and to ensure accuracy it is perhaps better to weigh the materials into a large-sized 3-oz. bottle. The oily material consisted of 14 parts of oil of almonds and 2 parts of castor oil, thoroughly mixed. To this quantity of mixed oil was added, all at once, 4 parts of the solution of borax as named (each being accurately measured). On being well shaken a very white uniform emulsion which did not separate resulted. I believe soap is sometimes added to this preparation to increase its white appearance and to prevent separation, but I do not know that it is a desirable addition, or that it is effectual in preventing separation." I have, up to this period, had no fault to find with my note.

Glycerine Jelly.—This combination may be made opaque or transparent. For the former, soap, glycerine, almond oil, and perfume are used; for the latter, isinglass, gelatine, or transparent soap, I oz., dissolved in glycerine and a little added water, this usually being a perfumed water.

GLYCERINE IN THERAPEUTICS.

I hope, by the introduction of a few brief notes under this head, that we shall not be doing any serious injustice to the medical profession.

Glycerine is reputed to be a safe and very effectual emetic for infants. As a substitute for cod-liver oil, iodised glycerine with iodide of potassium forms a good tonic, &c., for phthisical patients whose stomachs are unable to bear this oil.

A combination of a fluid extract of Caseara Sagrada, glycerine, and a little tincture of nux vomica is highly praised as a tonic laxative. Ferric chloride and its preparations are very astringent, and hence, when taken internally for some time as a tonic, are liable to do harm. This astringent effect is greatly counterbalanced by the addition of glycerine, with which this chalybeate is perfectly compatible. (See, however, a paper by Mr. Sehacht, The Chemist and Druggist, September 15, 1882.)

An excellent simple remedy, in place of the old-fashioned rum and figs, for tightness of the chest and the cough of old people, is a mixture of 40 fluid drachms of glycerine, 10 of rum, with 1 minim of oil of anise or peppermint.

The combination, as an aperient, in doses of 1 drachm, of glycerine and castor oil in equal parts, is now so old that it has almost sunk into oblivion, but it is undoubtedly, when prepared secundum artem and with a little flavouring agent, a valuable and highly efficacious elegant preparation. The

activity of the oil is said to be increased.

An excellent application for scalds and burns is composed of equal parts of glycerine and oil of peppermint. Glycerine, as an external application, is said not to be absorbed by the skin, hence it is of especial value as a basis when such agents as mercuric chloride iodoform, &e., have to be superficially applied in cases of certain skin diseases, as scabies, &c. One-and-a-half drachm, dissolved in 3 fl. oz. of glycerine, is reported to possess valuable powers in the treatment of scabies, &c.

Iodised glyccrine prevents the pitting which may result after an attack of small-pox. As a liniment, in combination with chloral hydrate, camphor, &c., it receives the commen-

dation of sufferers from rheumatism.

When vaporised in a suitable apparatus, and its fumes inhaled, glycerine is a simple expedient in cases of bronchial affections and distressing coughs; and here we may remark that many eminent vocalists are fully alive to the value of this substance as a voice-strengthener and throat-invigorator.

Salicylate of sodium, dissolved in glycerine, has its medicinal effects greatly enhanced. A good remedy for dyspepsia consists of pepsine, sherry, glycerine, and tartaric acid.

Naphthalinc, r commended as an antiseptic agent with a view to checking diarrhea, and said to be efficacious in cases of intestinal catarrh even when chronic, may be administered in glycerine, in which it is soluble when the solvent is slightly warmed. Indirectly connected with glycerine is the use of nitro-glycerine, as a 1-per-cent, solution in diluted alcohol, for neuralgia, &c.

Mercuric iodide, with glycerine, is a good paint for corns. An excellent simple febrifuge drink is thus made:—Glycerine, 5j.; eitric acid, 5ss.; water, 5vj. Dose, 1 to 2 table-

spoonfuls every hour for an adult.

GLYCERINE IN THE ARTS.

Glycerine is very largely used in the manufacture of printing, stamping, and letterpress inks, as also in the preparation of inks for the numerous forms of "graphs." The following is an example of an indelible-stamp ink taken from the Pharmaceutical Record:—Sodium bicarbonate, 22; glycerine, 85; gum arabic, 20; nitrate silver, 11; solution of ammonia, 20; Venice turpentine, 10; mix according to art. For ribbon-ink:—Concentrated glycerine and alcohol, of each 15; aniline, \(\frac{1}{2} \) oz. Blacking of excellent quality can be made by means of a judicious combination of soot, glycerine, oils, &c.

A good "graph" is readily made from Russian glue, 2; water, 1½; glycerine (1·260), 5 parts by weight. As these sometimes go mouldy, we may mention a wrinkle which will prevent the proneness of gelatine to this trouble. It is simply to dissolve a few grains of boracic acid in the glycerine

before incorporating with the other materials.

In the process of vulcanising indiarubber, glycerine is found to be of service. It appears that the indiarubber acquires properties which protect if from oils and fats without inter-

fering with its other properties.

For silvering and gilding glass we find our subject again in request by reason of its reducing action on the salts of silver and gold, and also because the deposit thus produced is of a brilliant metallic lustre. An ammoniacal solution of nitrate of silver is first prepared, and in it is poured a little solution of caustic potash, and then a few drops of glycerine. It is then ready for immediate use, since reduction begins at once, which process is accelerated if a little ether or alcohol be also added to the mixture. The result is said to be most

brilliant when a moderate heat is used, and darkness is id to favour the adhesion of the deposit to the mirror.

A polish for leather is thus made:—Shellac, 200; sit. 1,000; Marseilles soap, 25; spirit, 25 per cent., to dis ve soap, 375; glycerine, 40; to which is finally added 5 nig in 125 spirit.

Mineral-water manufacturers are now availing thems es of the advantages to be derived from the use of glycerin in the preparation of the liqueurs and flavours, &c., which me the second second

much in request as beverages.

Glovers use large quantities of yolks of eggs in cenin processes involved in the manufacture of kid gloves. In addition of a few per centums of glycerine is said to tal adecided advantage. Glycerine preserves the yolks for a gittime.

In the preservation of anatomical and other speciments value is well established, but a little point will perhapse useful to bear in mind. About six years ago a friend sented me with a nice specimen of the ripe fruit and fhleaf, with tendrils, of the *Bryonia dioica* which I plad in a bottle with some glycerine and water, but now, althourn good condition as far as preservation goes, I finde berries have become wrinkled and some have collapse, which, I believe, is probably due to a process of osmosis, eliquid within the fruit being of a different gravity from e preservative fluid. If I had first ascertained the gravity the juice, and made my glycerine solution of a similar gravity if such had been possible, I think the shape of the ft would have been retained.

ARTS.

For the preservation of cider, glycerine of salicylic acids admirable, a very small quantity keeping it good for or twelve months.

A solution of alum, arsenic, and nitre in glycerine is st to be an admirable preparation for "curing" animals'sk. I have a cat's skin which has been successfully prepa

with this combination.

To render eorks impervious, soak them several hours i solution composed of $\frac{1}{2}$ oz. glue or gelatine, $\frac{3}{4}$ oz. glyceri and a pint of water heated to 50° C. After such a trement they are nearly proof against many corrosive liqui but are more completely so if they are first well dried a then dipped in a mixture of 4 parts of paraffin and 1 vaseline, or simply ordinary petroleum oil.

NITRO-GLYCERINE.

The easiest and safest method of preparing this explosis that which was first introduced by Messrs. Boutmy at Foucher, and which as a new and safe method obtained to prize of 2,500f. offered by the French Academy of Science First by converting the glycerine into sulpho-glyceric acid and in this form bringing it into contact with the nitric acid to which an equal weight of sulphuric acid has been previously added.

The details of the process are as follows:-

One part by weight of pure glycerine (1.260) is thorough mixed with 3 parts of strong sulphuric acid (1.842); there at once a considerable evolution of heat, and the glycerine slightly discoloured. In a separate vessel a mixture 3 parts (also by weight) of sulphuric acid and 3 parts of ritr acid (14) is made, and both mixtures are then allowed t cool down to about 15°C. The next step is to transfer th two cooled liquids to a tall eylinder, and well stir the together, when a slight rise in temperature (to about 20 or 25°) takes place, followed after the lapse of half an how or so, by a cloudiness of the acids, due to the separation of minute drops of nitro-glycerine. After standing for about twenty hours the formation of the oil is complete, the whole of it having risen to the surface of the acid mixture; it may then be syphoned off, dissolved in an equal volume of ether to facilitate its separation, shaken up with successive portions of water until the washings fail to redden blue litmus, and finally heated on a water-bath until its weight remains constant. The nitro-glycerine will now be light brown in colour, and should have a specific gravity of 16, and should detonate readily and powerfully when fired by percussion of by means of a fulminating charge. This substance may be easily recognised by the violent but transitory headache which is experienced on placing an exceedingly small quantity (1-100th of a grain or thereabouts) on the tongue.

In the old processes the nitro-glycerine separates almost

tantaneously, and rises in part to the surface, thus renderwashing difficult. In the process above described its mation is gradual and extends over a long period of time.

PHYSICAL AND CHEMICAL USES OF GLYCERINE.

The barometric records made for the Times newspaper are m a glycerine barometer. In place of the column of orcury of about 30 inches length, a tube about 27 feet long used containing $\frac{3}{4}$ of a gallon of glycerine coloured red thaniline. The great advantage of this fluid is that readis can be taken more accurately, for, when subjected to the ight of the atmosphere, while mercury would move 1-10 inch, height of the glycerine column would be moved through pace of 1 inch. One objection has to be provided against, , the hygroscopic nature of glycerine, its power of absorb-water from the air being very great. This is remedied, wever, by putting a layer of heavy petroleum oil in the tern of the barometer. There is a glycerine barometer at Kew Observatory, which also required for its construcn 3/4 of a gallon of glyceriue, and, in order to obtain the rect height, the tube passes through two rooms, the cistern ing in one and the column read off in the one above.

This fluid, on account of its high boiling-point and low ezing point, is of constant use in scientific experiments. Carbolic acid is said to be an adulterant of ordinary or bod-tar creasote. The former is well known to be soluble glyccrine (glyccrinum acidi carbolici), and on the addition water forms a clear solution. Creasote forms a nearly ar solution with this liquid when of sp. gr. 1.260, but on

ution with water it separates out again.

When gallie acid is warmed for a long time with glycerine, n at a low temperature, pyrogallol results, and this process aken advantage of by photographers, who use a combinan of glycerine and pyrogallol or pyrogallic acid in some of

ir operations.

A delicate test for glycerine is to take 2 drops of carbolic d with 3,000 to 5,000 drops of water, and add 1 drop of ution of ferric chloride; in the absence of glycerine a le colour results, but if it be present the colour does not m. If colouring matters or sugar are present in the spected liquid they must first be removed. To do this cic hydrate is added to the liquid to be tested, with some wdered marble, and evaporated, and the mass then austed with a mixture of alcohol and ether; the alcoholic ution evaporated to remove ether and alcohol, and the idue mixed with water, and the test applied, first neutralisany alkali, should any be present. This may be available a qualitative test for the presence of glycerine in beers, nes, beverages, &c.

The value of glycerine jelly for mounting microscopic jects needs only a passing comment; its manipulation is y easy, and well suited to the tyro embarking in the study

histology of animals and plants.

The fact that glycerine when present in a solution often atly interferes with the usual chemical reactions should vays be borne in mind. Thus ferric bromide mixed with rcerine, and then sulphocyanide of potassium added, gives e usual red colour, but ether does not remove that colour dimpart it to itself. Again, if ferric bromide be added sulphocyanide of potassium, and then ether added, we tall that we expect, but on the addition of glycerine the her becomes colourless again. Glycerine also removes auric loride and uranium nitrate from their etheral solutions; , too, an ethereal solution of mercuric chloride, when itsted with glycerine, is found to hand over the greater rt of its solvend to the latter solvent.

Glycerine has very recently been used in a process for the eparation of chemically pure metallic bismuth. Ordinary mmercial bismuth is dissolved in dilute nitric acid, and the ution mixed with water until turbidity begins to appear; en a sufficient quantity of fixed alkali is added in solution precipitate the bismuth and render the solution alkaliue; ice the volume of the alkaline solution used is now added, a glycerine in sufficient quantity stirred in to re-dissolve precipitate; filter if necessary. The filtrate is now xed with a solution of pure glucose (1:6 or 8) and laid de for some time in the dark: filter again. The filtrate is w boiled and well stirred, when finely-divided bismuth is posited, which must be filtered away, washed, and dried as idly as possible.

(To be continued.)

BRITISH PHARMACEUTICAL CONFERENCE.

MEETING of the Executive Committee was held at 17 Bloomsbury Square, W.C., on Wednesday, February 25, at 4 P.M. Present: Professor Attfield (vice-president), in the chair; Messrs. Atkins, Benger, Carteighe, Ekin, Hills, Symons, and Williams; and Mr. Plowman and Dr. Thresh (hon. gen. secs.).

The minutes of the previous meeting were read and

confirmed.

Letters of apology for non-attendance were read from Mr. J. B. Stephenson (president), Professors Redwood and Bentley, and Messrs. Bell, Borland, Brunker, Dott, Kay, Reynolds, Sim, and Strachan.

Mr. Plowman said that this was a special meeting to consider a communication from Mr. R. Bremridge, the hono ary general secretary of the International Pharmaceutical Congress of 1881. In his communication Mr. Bremridge stated that he had received a letter from the president and secretary of the Provisional Committee of the sixth International Pharmaceutical Congress, to be held this year in Brussels, suggesting the desirability of altering the date of the British Pharmaceutical Conference this year, so that members might be able conveniently to attend both meetings. Mr. Plowman explained that the business of the International Congress will not terminate until September 6, and that of the Conference will, if no alteration be made, commence on the evening of the following day. Under these circum-stauces, he had written to Mr. Strachan, the local secretary at Aberdeen, requesting him to ascertain the opinion of the local committee on the subject. He had also asked Mr. Stephenson to be good enough to ascertain the general feeling in Scotland, and he (Mr. Plowman) had communicated with all the members of the Council of the Pharmaceutical Society of Great Britain, as well as other leading representative pharmacists in England and Ireland. Mr. Strachan replied that it was "the unanimous opinion of the Aberdeen Committee that it would be very injudicious to change the date of the meeting." Mr. Stephenson wrote to say he had "found the opinion of Scottish pharmacists practically unanimous against altering the date of the Aberdeen meeting, as already arranged." The great preponderance of opinion of other leading pharmacists in England and Ireland, including members of the Executive Committee, who were absent from this meeting, and who had written on this subject, was also against any change.

Dr. Thresh reported that he had consulted every member of the Board of Examiners in London, and found practical unanimity of opinion that no change should be made.

After some discussion, on the motion of Mr. Ekin, seconded by Professor Attfield, the following resolution was unanimously agreed to:-

That, in consideration of the fact that the great mass of opinion of pharmacists in Great Britain and Ireland is against any change, it is undesirable to alter the date of the 1885 meeting of the British Pharmaceutical Conference.

The next general meeting will, therefore, be held in Aberdeen on September 8 and 9, 1885.

It is related that a certain German maiden once presided at a mineral-water fountaiu, at which there were only two kinds of syrup—vanilla and lemon. To her came a young man and said: "I want a glass of soda without syrup." "Ya, replied Katrina; "boot vot kind of syrup you vant him mitout, mitout vanilla or mitout lemon!"—Min. Water Trade Recorder.

ENTERTAINMENT.—On Thursday evening, February 19, the employés of Messrs. Hovendon & Sons' City Road establishment gave their fourth annual musical and dramatic entertainment in the Great Hall, Cooper Street, one of the firm presiding. The hall is said to be capable of seating 2,000 people, and was crowded. There was a long programme, admirably sustained throughout. The band, composed of more than fifty performers, is decidedly above the amateur average, and rendered several pieces in excellent style. The singing and some of the recitations were very good. A farce, entitled "Dearest Mamma," concluded the entertainment.

TRADE-MARKS APPLIED FOR.

THE Trade Mark? Journal, February 11, 1835, gives the following notice:—"Any person who has good grounds of objection to the registration of any of the following marks may, within two months of the date of this journal, give notice in duplicate at the Patent Office, in the form 'J,' in the second schedule to the Trade Marks Rules, 1883, of opposition to such registration." All communications relating to patents, designs, or trade marks to be addressed to H. Reader Loek, Esq., Comptroller-General of Patents, Designs, and Trade-marks, Patent Office, 25 Southampton Bnildings, Chancery Lune, London, W.C.

From the "Trade Marks Journal," February 18, 1885.

- DUAL, in white letters on black ground, and a peculiar design for glass bottles and aërated waters. Dan Ryland's Hope Glass-works, near Barnsley, Yorks, Nos. 40,681 and 40,682.
- SAVED BY SAMARITAN SALT, and a picture for a chemical used in medieine. Connell & Connell; trading also as "Sage & Co.," 14 Tavern Street, Ipswich. No. 41,679.
- THE "INVICTA," for chemicals and chemical preparations used in photography. J. Wm. Jones. Palmerston Buildings, 138 and 139 Old Broad Street, E.C. Nos. 41,703.
- ELYSIA, J. M., and a shield for perfinnery. James Merrell, 1 Queen's Terrace, Camden Road, London. No. 41,720.
- Tic-ure, with shield and monogram for chemical medicine for man.

 Joseph Weston, 113 High Street, Finton, Stoke-on-Trent. No. 41,776.
- PUNCHETTE, a nou-alcoholic cordial. Geo. Hy. Skinner, 13 North Street, Exeter. No. 41,803.
- EXTRAIT D'EAU DE COLOGNE DOUELE, and a label with space for name J. M. Farina, Jillieh's Platz 4, Cologne. No. 41,823.
- JUNIPER PILLS, with a 'abel, name, and address. George Mee, 79 Grosvenor Road, Highbury New Park, London. No. 41,853.
- PURE ONYGEN TABLE-WATER, with signature. Brin Frères, Civil Engineers, Paris. No. 41,894.
- Dr. Wright's Sanitary Night Lights, with label, &c. The Hygienic Candle Co., 76 Coleman Street, E.C. No. 42,017.
- OUR DARLING'S BOTTLE and OUR BABIES' BOTTLE, printed on a pieture of the globe, for feeding-bottles. Kilner Brothers, Great Northern Goods Statiou, King's Cross, N. Nos. 42,009 and 42,165.
- LIGHTNING-FILLING MACHINE. An aërated-water filling machine. James Galloway, 100 Bark Street, Bolton, Lanes. No. 42,109.
- CLEOPATRA, for all goods in Class 48 (perfnmery, &c.). Chas. Ang. Morris, 21 Chaneer Road, Herne Hill, Surrey. No. 42,159.

From the "Trade Marks Journal," February 25, 1885.

- ED. PINAUD, with a basket of flowers, &c., for perfumery and scented soaps. Emile Meyer, 37 Boulevard de Stra sbourg, Paris. No. 39,886.
- THYMO-CARBOL and THYMO-PHENOL, with signatures, for chemical substances used in manufactures, photography, and research. F. C. Calvert & Co., Bradford, Manchester. Nos. 40,184 and 40,187.
- SENIER'S CONSTITUTION BITTERS, and label with directions, &c., white on black ground. Harold Senier, 83 Norwood Road, London, S.E. No. 40,237.
- THE "SIMPLEX" SODA-WATER MACHINE. James McEwen, Blake Street Works, Stretford Road, Manchester. No. 40,823.
- THE NOUVELETTE PRESERVATIVE TOOTH-POWDER, A. Z. (LONDON).
 Samnel Jennens, 14 Oseney Crescent, Camden Road, N.W. (gentleman).
 No. 41,197.
- THE YARA YARA PERFUMED SOAP. Wm, Mil's, trading as "Milton Chemical Company," 49 Bath Street, Glasgow. No. 41,457.
- THE UNIVERSAL SAMPLE-BOX, with picture of a screw for boxes for samples made partly of wood. Thos. Christy & Co., 155 Fenchurch Street, E.C. No. 41,458.
- CONDENSED SWISS MILK, EXHIBITION BRAND, with label, &c. John Cook & Sons, sole agents, 2 Old Bethnal Green Road, London. No. 41,602.
- Kosmian, with a design, for ink. The Kosmian Mannfacturing Company, Boston, Massachusetts. No. 41,722.
- Picture of a Balloon, for stoppers for bottles made of indiarubber or guttapereha, and for those of other materials and for those of glass. Waltham Brothers, Stockwell, Surrey. Nos. 41,837 and 41,838.
- WALKER & WALTON'S CARBONATED WINES, on picture of a vine-leaf, for aërated waters. Walker & Walton, 20 and 22 Newington Butts, S.E. No. 41,962.

- THE LEO, for chemical substances used in medicine, for substances ed food, and for perfumery and toilet articles. Robert Clay accountant, 54 Weston Street, Upper Norwood, S.E. Nos. 42,0230 and 42,024.
- Pieture of a Bow of Ribbon, for lemonteens, being non-alcohe non-acrated beverages. James Sutton Bryant, 32 Woking re-Cardiff. No. 42,178.
- WRIGHT'S CHICKEN-REARING FOOD, with label. John Henry \gh Eastbrook Rawdon. No. 42,231.
- SPARKLING COCOA, SPARKLING COFFEE, and SPARKLING TEA, acratijon alcoholic beverages. Davidson & Co., Queensbridge Street, 1822 Nos. 42,257, 42,258, and 42,042.
- THE OLDHAM MINERAL-WATER COMPANY, with a design, Waterloo he Union Street, Oldham, for aërated waters. No. 42,283.
- LITHIA WATER, with label and address. M. B. Foster & Sons, 27 DO Street, Bond Street, London. No. 42,336.

From "Trade Marks' Journal," March 4, 1885.

- SPRATT'S PATENT CARDIAC POWDER, A TONIC FOR PHEASANTS. The of Spratt's Patent, Henry Street, Tooley Street, Southwark P. No. 39,741.
- THE SELF-WASHING and WOMAN'S FRIEND, common-soap, detergent Lever & Co., Market Street, Wigan. Nos. 41,597 and 41,859.
- J. DELCROIX & CO., 158 NEW BOND STREET, LONDON, with design of toilet articles and violet powder. E. F. Langdale, 72 and 73 Hong Garden, E.C. No. 41,624. Used upwards of fifty years before 187.
- COMPETITION TOILET SOAP, BOUND TO WIN. F. S. Cleaver & Sons, 34 Red Lion Street, Holborn, London. No. 41,723.
- The single letters A, B, C, D, E, F, for vinegar. Hill, Evnns &b, St. Martin Street, Worcester. Nos. 42,064 to 42,069. Used more in thirty years before December 9, 1884.
- VICTORIA HEXAGON, for dog bisenits. Wm. Baker & Sons, Redeliff F., Bristol. No. 42,217.
- EMBROLINE, for medicinal tinctures and extracts. Henry Sharp, 32 Ep Park Road, Leeds. No. 42,263.
- CHAROOSH, for condiments, sauces, and relishes. H. S. Mendelssohn, 27 C-cart Road, South Kensington. No. 42,347.
- Tabloids, and a design, for chemical substances used in medicine and preparations of food. Burroughs, Welleome & Co., Snow Hill Buildin Holborn Viaduct, E.C. Nos. 42,378 and 42,379.
- CONSERVINE, and a design, for preparations for preserving alimentary s stauces. Conservine Chemical Company, 46 Trafalgar Road, Old Ko Road, S.E. No. 42,381.
- MANHATTAN HORSE AND CATTLE FOOD. Thomas Holmes, 19 and Crampton Street, Bradford, Yorks. No. 42,397.
- Picture of Science Trimming the Lamp of Life, for medical preparation James Mackenzie, trading as "Mackenzie & Co.," 45 Forest Ros Edinburgh.

From "Trade Marks' Journal," March 11, 1885.

- MARQUETERINE, for the imitation of inlaid wood, &e., and a label, for wood-stains. Jabez Barnard & Son, 19 Berners Street, Middlese. No. 40.524.
- MULLEDYNE, a proprietary medicine. Timothy Vincent Riordan exhibtion agent, trading as the "Mulleiu Manufacturing Company, 1 Whiteley Road, Upper Norwood, S.E. No. 40,817.
- BARRETT & CO.'S FRENCH GLYCREINE KID-REVIVER, and a design Mary E. Battersby, trading as "Barrett & Co.," Oak Lea, Sale Chester. No. 41,298.
- SULPHALUMINE and ALUMINOFERRIC, for chemical substances used in manufactures. Peter Spence & Sons, the Manchester Alum Works, Manchester, Nos. 41,879 and 41,881.
- SUNFLOWER BAKING-POWDER, BOUND TO RISE, and a label. British Tea and Trading Association, 118 Southwark Street, London. No. 41,939.
- ARNOLD'S PURE GLYCERINE SHAVING-CREAM, as a label. Walter Stocks Moon, Springfield, Fifeshire, N.B. No. 42,137.
- LUNN'S WORCESTER COLLEGE SAUCE, and a design. Thos. Lunn Worcester. No. 42,176.
- CHLOROZONE, a rinsing and bleaching preparation. Jas. R. Holmes, trading as "Holmes' Ozone Company," 12 Waterloo Street, Glasgow. No. 42,252.
- LEMONTINE, in a design, a fluid for producing hair on the human head. Graham Lemon, Yow Park, Clontarf, Dublin. No. 42,362.

MUHT SUN, for eod-liver oil and medicated articles for human use.
John S. Morris & Son, Victoria Bridge Oil-works, Manchester.
No. 42,483.

ox's Carrolle Jelly, an ointment for human use. Samborne Cook, 176 Radford Road, Hyson Green, Nottingham. No. 42,574.

tification of the Register. On the motion of the Porous Plaster Company, carrying on business at Sing Sing, New York State, the words "trading as The Porous Plaster Company" have been expunged where they occur in the registered name of Henry Daubeny Brandreth, as owner of the marks 31,852 and 31,853.

The Druggists' Lawyer.

HE DUTIES, RIGHTS, AND RESPONSIBILITIES OF COMMON CARRIERS.

RUGGISTS, in common with tradesmen generally, have many dealings with railway companies and other common carriers of goods; and questions frequently arise been the carriers and the consignors or consignees of goods ried by them. We, therefore, think that a brief exposition the law affecting the relations between carriers and person whose behalf they carry goods may be interesting duseful to our readers.

A common carrier is one (whether company or individual) o accepts from all comers goods for conveyance from one vn or place to another for reward or hire agreed to be paid the earrier according to the nature, weight, or bulk of the ds and the distance which they are to be conveyed. The rying may be either by land or by water, but in all cases tain general principles apply to the contract between the ties. These general principles may profitably be consired in the first instance, before we review briefly the legisive enactments affecting railway companies, &c.

One of the most important of the common law principles ecting the subject in question is the duty of the carrier to ce care of the goods entrusted to him in the way of his siness, a duty so absolute that nothing can absolve him om the performance thereof except the act of God or the icen's enemies. When goods are entrusted to a common rrier he is bound to take care of them until they are delired at their destination, or otherwise disposed of at the rection of the consignor, who retains a right of stoppage in ansitu until actual delivery, as we shall more particularly plain before we conclude. Thus, when a earrier loses ods entrusted to his care, or is robbed thereof, he must ake good the loss, although no negligence could be charged gainst him in either case. Even though a special contract e entered into, the carrier will have to take all reasonable are, and will only be exonerated in respect of losses coming rictly within the exception in the special contract. A arious illustration of this was the case in which a carrier adertook to carry goods safely and deliver them at their estination, "robbers and dangers of the road excepted." art of the goods were secretly stolen by the way, and it was eld that the earrier could be compelled to make good the ss, as a secret pilfering was neither a danger of the road or a taking by robbers within the meaning of the contract, hieh evidently contemplated robbery with violence, and not theft which might have been guarded against by due vigi-But if the owner of the goods accompanies the arrier for the purpose of taking care of them, he thereby elieves the carrier from that duty.

There are many exceptions to the definition of common arriers which we have given; and it is not every one who arries goods for hire who is a common carrier; those who nly carry in pursuance of special contracts are within the xception, and therefore are not included in the scope of our

present inquiry. In each case the initial relations of the parties must be decided according to the special contract between them. On the other hand, common carriers may enter into special contracts; and when they do so their common law liabilities are modified thereby; though anything not provided for in the contract will remain to be dealt with according to the original law affecting the ease if there had been no contract. It is a general rule that a contract cannot be stretched beyond its express terms; and where it is silent the parties will be held to have intended to stand upon their legal rights as if there had been no special contract between them. Of course, this only applies to cases which are clearly beyond the scope of the agreement, and left unprovided for thereby.

A common carrier is bound to accept and carry all such goods as he professes to earry for all persons who are willing to pay the regular charges for the same, if he has room in his vehicle for the goods tendered to him for conveyance. He professes to be the servant of the public, and he must serve the public without making any difference between those who are willing to employ him. He is also bound to deliver the goods within a reasonable time; but what is a reasonable time may often be a matter of dispute between the parties, and must in each case be determined by the special circumstances and the nature of the goods, as to their being perishable or otherwise. If he only professes to carry certain descriptions of goods, he cannot be required to carry goods of a different nature: nor can he in any event (as a common carrier) be compelled to carry dangerous goods; for he would thereby render himself liable to make good all the articles which might be destroyed or damaged while in his charge in consequence of the proximity of such dangerous goods. But if any dangerous goods are sent by a carrier without notice of the nature thereof, the person sending such goods would be responsible for any damage which might be occasioned by the carriage of them without such extraordinary precautions as might be necessary to be used in their carriage.

When goods are weighed on their delivery to the carrier, and on their delivery by him there is found to be a deficiency in the weight thereof, he will be held responsible unless he can show that the loss has occurred in consequence of some cause beyond his control: and the burden of proof will be upon him. Ordinary goods do not usually lose weight in the course of a short journey.

Where any actual loss or injury is occasioned by the wrongful act of a third party while the goods are in the charge of carrier, the latter is responsible for the value of the goods or to make good the damage done, although he has a remedy by action against the person by whose interference the actual mischief was eaused. He can sue in respect of the loss which he has sustained, and it would be no answer to such an action that the plaintiff was not the owner of the goods which had been injured by the misconduct of the defendant.

We do not purpose to go fully into the subject of the carriage of passengers; but it may be well to clear up a common misapprehension as to the responsibility of carriers of passengers for luggage belonging to and accompanying such passengers. If a man professes to carry passengers only, and does not provide any accommodation for their luggage, although he allows them to take small articles with them, he is not responsible for the loss of any articles so carried in or upon his vehicle. A common illustration of this is the ease of an omnibus proprietor. But when, as in the ease of a journey by railway, the passenger is subject to regulations as to the quantity of luggage which he may take without charge, and is charged for any excess, then the carrier will be held

responsible for all goods of the passenger accepted by him for conveyance with the passenger, whether anything beyond the fare is charged or not: with this exception—if the passenger takes charge of his own luggage and it is lost during the journey, the carrier is not responsible. It would not be fair to expect a carrier to be held liable for any goods which had not been delivered into the hands of his servants for safe custody.

The declaration as to the value need not be made by the consignor; it will be sufficient if it be made by any person duly authorised on his behalf, even though such person should not be one of his servants, nor a person expresssly authorised to make such declaration. Thus, where a person applied to a friend to call for and forward some valuable goods within the statute, and the friend signed a declaration of value and paid the extra charge, the carrier was held responsible, and the declaration was decided to be sufficient on the principle that an authority to do a certain act includes authority to do all that is necessary in order to do that act effectually: and further, that the carrier having accepted the responsibility, and the extra payment in respect thereof, could not be allowed afterwards to dispute his liability.

If the carrier does not have his extra charges posted up in his office, or if he neglects to take the amount thereof after the value of a parcel has been duly declared, he will be held to have accepted the parcel subject to his common law liability, as if the Act of Parliament had not been passed.

In case of theft by the carrier's servants or any of them, the carrier will be held responsible as if the Act had not been passed; and the same rule applies to all special contracts; when the parties choose to define the terms on which the goods are to be carried, those terms will have to be observed.

If goods should be damaged in consequence of having been insecurely packed, the consignor, and not the carrier, will be held responsible. Every man must be answerable for his own deficiencies. But if any defect should become visible while the goods are in the hands of the carrier, he must do his best to make good the defect, so that he may be able to deliver the goods in a sound state and free from any injury while in his care. He must not neglect any precautions which may be in his power to ensure the safety of the articles sent by him, although he would not be responsible for any internal defect in packing which could not be discovered by inspection of the outside of the parcel.

Railway companies have used much ingenuity in order to evade responsibility, but, upon the whole, the battle between them and their employers may be described as drawn; sometimes one side gains an advantage and sometimes the other. The special clauses in the Acts of Parliament obtained by various companies need not be examined here, or we should overrun the space allotted to us. The principle of the Railway Traffic Act is substantially the same as that of the Carriers Act, which we have already explained. A case of an attempt to evade liability for the safety of a passenger's luggage may be briefly noticed. A railway company, by their regulations, required their passengers to see their luggage marked with the company's labels, and stated that they would not be responsible for any luggage which was not so marked. A passenger required a parcel of wearing apparel, wrapped in a shawl, to be labelled, but the porter on duty refused, on the ground that it was not usual to label shawls, and that doing so would be contrary to the rules laid down for his guidance. The parcel was therefore placed in the guard's van without any label and lost. On the passenger bringing an action against the company for the value of the articles so lost, he was held entitled to recover, on the ground that the company had no right to make regulations which would have the effect of divesting them of their responsibility for the safe carriage of the luggage of passe ex when entrusted to their care.

Even when goods are accepted for carriage subject; special contract as to certain sources of possible loss, as at the carrier shall not be responsible for leakage or breake, it such leakage or breakage be occasioned by the negligen or misconduct of the carrier or his servants, he will be liak to make good the damage or loss, notwithstanding the stial contract; for a man cannot be allowed to shield himsely contract against the consequences of his own wrongful &s.

Railway companies are not allowed to impose unreasonle conditions upon their customers, even by means of spial contracts, and many special contracts have been decied void on this ground. 4On the other hand, the condition 1.st be clearly unreasonable, or the contract will be upheld. In all cases of special contract for the carriage of goods a reduced rate, in consideration of lower charges being acced by the company, a memorandum must be signed by the asignor or some person on his behalf. In a case which is decided last year by the House of Lords (the supreme ibunal in this country), it was held that where a person d the option of sending his goods at the ordinary rate on e usual terms as to the risk of the company, or of payira lower rate and taking the risk himself, it was decided it the option was not unreasonable; but when he lost's market in consequence of unavoidable delay, without y negligence or other fault on the part of the company, hert bear his own loss as he had agreed to do. An attempt s been made to stretch this decision too far, by representing as establishing the proposition that under such a contract > company would not be responsible in any event; but this mistake. If they could have avoided the delay they wo! have been responsible for the consequences of their of negligence, as already explained.

A railway company is bound to provide reasonable facilit for the carriage of goods, &c. Having been granted spec powers which have enabled them in many instances to obta a monopoly of the carrying trade between certain district they must accommodate the public properly, or, in defart an application may be made to the Railway Commissioners, also may be done in case of any undue favouritism as between rival tradesmen, &c.

A carrier ought always to be informed of the value of a money or other articles entrusted to his care which are all out of the ordinary line. Thus, where a man hid 100 in an old nail bag which apparently only contained son hay, and sent the same by a common carrier who lost it, was held that the carrier was not responsible, as he was le in ignorance of the need for special care of the bag. Hence it will be seen that the duty of the carrier is balanced by correlative duty on the part of the consignor; and we sha show presently how the responsibility of a common carrie may be further limited. In this, as in all other cases of negligence, an action for damages may be defended on the ground that there had been contributory negligence on th part of the plaintiff. And this is clearly just: if a man b his own negligence contributes to his loss, he must bear tha loss, even though there may also have been negligence on th other side; otherwise there would be a breach of the uni versal rule that no man can take advantage of his own wrong

The general rule is that a carrier has a lien upon any goods carried by him for the amount of his charges for the conveyance thereof. In case of refusal on the part of the consignee to pay the carriage, the carrier may detain the goods for a reasonable time, in order to give the consignee an opportunity of changing his mind and accepting the goods subject to the payment of earriage. But if the consignee

ersistently refuses to pay, the carrier will hold the goods the disposal of the consignor, to whom he is entitled to ook for the payment of his hire. Even though part of the roods may be delivered, it does not follow that the carrier as abandoned his lien so long as he holds sufficient goods o cover the amount due to him. And the right of lien is not lost by reason of the goods belonging to some person ther than the consignor. The carrier still has the ordinary emedy in respect of his charges for carrying the goods.

This right of lien, however, is limited to the amount due n respect of the parcel of goods which have been so carried, nd does not extend to a general balance due from the conignor or consignee to the carrier, unless such right may are been conferred by a special contract between them. But mere promise on the part of the consignor or consignee that certain parcel of goods may be retained as a security for he payment of a then existing debt would be void as aving been given without any legal consideration, and ould not be enforced.

The charges of a common carrier, where not limited by tatute, must be fair and reasonable. In the case of a railway company, the maximum charges are limited by the Act of Parliament authorising the construction of the railway; nd the same applies to canals and other means of transit which have been provided by the sanction of Parliament. he legislature, in giving exceptional powers for the accommoation of the public, take care to protect the public against ny excessive charges by the promoters. In one respect, the w respecting the carriage of goods resembles that which egulates the proceedings of the cab-drivers: if a bargain be nade to carry goods for less than the ordinary charge (even hough the clerk making such agreement has made a misake) the carrier is bound by that agreement; but it by no neans follows that an agreement to pay more than the proper harge would be upheld.

It is, however, essential that a common carrier should make II his customers equal in respect of charges for his ordinary ervices where the goods conveyed are of the same class and re carried the same distance, or to and from the same laces. There is an apparent anomaly in the case of rail-ray companies which sometimes charge a higher sum for aking goods to a nearer place than they require for conveying similar goods to a more distant station. This arises here there is competition in the service to the more distant station, but none to the intermediate one. And the habitants of the latter place have no remedy; for the harges which they are called upon to pay are always less han the maximum which the company are authorised to barge, and there is no minimum limited by the Act.

The position of a carrier differs in several respects from hat of a warehouseman; and though we have not any intenion at present of considering the legal position of warehousenen, we must explain when and how the carrier may be aerged in that character. So long as the carrier holds the goods for the purpose of discharging his duty as carrier, he etains all the rights and privileges of that position; he may ave carried the goods to the town for which they were lesigned, and only be holding them until it is convenient o deliver them. But if the consignee arranges that, instead f being delivered immediately, the goods are to remain in he warehouse of the carrier, the transit is at an end; the arrier has discharged his duty in that capacity, and has ecome the agent of and warehouseman for the consignee. his distinction is often important for the consignor; for when the goods have come into the possession of the conignee's agent, the right of stoppage in transitu is lost.

This right arises whenever a purchaser becomes insolvent cfore the actual delivery of the goods to him or his agent.

Even if the goods have been sold upon the ordinary credit terms, the vendor may stop the delivery of the goods by notice to the carrier so long as they remain in the hands of the latter in that capacity. Therefore it is often important to ascertain when the carrier becomes merged in the warehouseman.

In treating of the duties of carriers, we have necessarily, to some extent, dealt also with their responsibilities; but a little further explanation of the latter is necessary. At common law, a carrier was allowed to charge more for the carriage of valuable articles in a small compass than for ordinary goods of the same bulk and weight. responsibility was enlarged in proportion thereto. If he undertook to carry a bag of gold, and accepted an increased rate of payment in consideration of its value, it necessarily followed that he could be held responsible for the full value of the gold which he was employed to carry. It then became usual for carriers to have notices posted in their offices that they would not be responsible for the value of parcels lost by them unless they had previous notice of such value, and were paid an increased rate of remuneration for carrying the same. The difficulties which arose in respect of these notices led to subsequent legislation on the subject, the Carriers Act having been passed in 1830 for the purpose of limiting and defining the responsibility of common carriers in respect of parcels carried by them of the value of more than 101.

By this statute, common carriers by land are exempted from any liability in respect of the loss of, or injury to, gold or silver, or several other valuable articles specified therein, contained in any parcel or package which shall have been delivered, either to be carried for hire or to accompany the person of any passenger in any public conveyance, where the value thereof shall exceed the sum of 101, unless at the time of such delivery the value and nature of such articles or property shall have been declared by the person sending oz delivering the same, and an increased charge or an engagement to pay the same is accepted by the person receiving the parcel. There must be an express declaration made; and then, if the carrier has a notice of the increased rates to be paid posted up in his office, he may demand the increased rate, which is in the nature of an insurance premium for the safe delivery of the goods. It is obvious that the business of a carrier would be a very risky one without some such means of limiting his responsibility.

A common carrier may protect himself by special contract from the consequence of loss or damage by fire; and, as we have already said, may in various ways limit his liability by special contracts with his customers; but he cannot by a general notice evade the responsibilities appertaining to his business. Thus, the following notices by railway companies and other common carriers have been held to be void. A public notice that all merchandise received by them to be carried will be carried at the owners risk; another, that all luggage delivered to them to be carried with passengers will be carried at the risk of the owner thereof; and a third, that the carrier will not be responsible for any goods or passengers' luggage delivered to him to be carried in ease the same should be lost or damaged during the transit. In every such case, the consignor or passenger may object to such terms, and insist upon his goods being carried subject to the ordinary liability of the carrier in respect thereof.

FOR GOOD BOLD LABELS for stock bottles the Journ. de Ph. d'Als.-Lorr. recommends a paint made from 10 parts of liquid silicate of soda (soluble glass) and 1 part of common oxide of zinc. Three or four layers of this paint to form the white ground, the letters to be marked on with coal-tar diluted with a little turpentine.

THE WORK OF PASTEUR.

THE investigations and discoveries of Louis Pasteur are recognised in scientific, medical, and industrial circles, not only as of the highest immediate interest, but also as being probably passages leading to a knowledge of life and its conditions, such as we have hitherto scarcely dreamed of. A book has been written by M. Valery Radot, the son-in-law and constant companion of M. Pasteur, the intention of which is to give a popular account of the labours in which this eminent Frenchman has been engaged, and the triumphs he has achieved. We are glad to observe that it is by the particular wish of M. Pasteur himself that the work is translated into English. The English version, which is due to the skill of Lady Claud Hamilton, is published by Messrs. Longmans, and is made more valuable by an introduction, analytical and critical, written by Professor Tyndall.

A curious difficulty was met with at the outset of the task of turning the book into English. The French title, "M. Pasteur, Histoire d'un Savant par un Ignorant," which is at the same time modest, explanatory, and effective, was not susceptible of being rendered into our language both elegantly and correctly. This is to be regretted, because it must be stated that the sub-title, "Life and Labours," is somewhat misleading. We find almost nothing concerning Pasteur's life; we should hardly know he had been married if it were not that the author of the book is described as his son-in-law. The marriage is indeed mentioned, but only in an anecdote illustrating his devotion to science. On the morning of the wedding it was necessary to go to his laboratory to remind of the event. But it is pleasant to find it hinted that Madame Pasteur has been treated with more respect than was Madamoiselle Laurent on that occasion. But, on the other hand, the value and significance of his discoveries is told in a manner which suggests the knowledge of the "savant" combined with the literary skill of the "ignorant."

Pasteur was born at Dôle in 1822. His father was an industrious tanner, whose great ambition seems to have been to make an educated man of his son. "If you could only one day become professor in the college of Artois," said the father frequently, "I should be the happiest man on earth." Chemistry was the first study that really attracted Louis Pasteur, and once having found his vocation he pursued the science with devotion, with passion. In 1843 he is met with in Paris attending the lectures of Balard and Dumas. He gave up all his spare time to experiments, and he must have toiled for some years on subjects which yielded him no prospect of personal fame, for it was not till he was twenty-five, four years later, that he seems to have made his first original investigation. This was in connection with the right and left-handed tartaric acid. Pasteur plunged dceply into the mysteries of symmetry and dyssimmetry; he saw "a grand horizon behind these researches in physics and molecular optics"; and he still laments, the author tells us that he has never had time to retrace his steps. This part of M. Pasteur's studies is the hardest of a'l to the careless reader. Dr. Tyndall seems to recognise that it may prove a pons asinorum, for he kindly remarks with a slight touch of sarcasm, "Should difficulty be encountered here at the threshold of this work, I would recommend the reader not to be daunted by it, or prevented by it from going further. He may comfort himself by the assurance that the conception of a dyssimmetric molecule is not a very precise one even in the mind of M. Pasteur."

These studies led Pasteur directly, but accidentally, to the work of his life. A German chemical manufacturer had observed that the impure tartrate of lime, if contaminated with organic matter and permitted to remain under water in summer, will ferment and yield various products. Tartrates were Pasteur's perquisites at the time, and he, therefore, investigated the circumstance. He found the turbidity was due to multiplication of a microscopic organism which found in the liquid its proper aliment. He recognised in this organism a living ferment. He found it had the power of selecting its food. He found that it would take the righthanded tartrate from the solution and avoid the other; and, as Tyndall says, he "closed with the conception that ferments are in all cases living things, and that the substances formerly

regarded as ferments are in reality the food of the ferment His theory was propounded; he devoted some years to establishment, before which he had to overthrow the alm overpowering influence of Liebig, who treated the notion "animalculæ" as producers of fermentation with contemp

The first practical application of his discoveries was ma in regard to the manufacture of vinegar from wine. I generally received theory was that of Liebig, that the actifermentation was caused by the albumenoid matter in t wine. Pasteur asserted and proved that the active age was the "flower of vinegar," the "mycoderma aceti," whi in contact with air abstracted oxygen, and fixed it on t alcohol of the wine, converting it into acetic acid. By I method of sowing the mycoderma aceti in the vats, the tin occupied in the conversion of wine into vinegar was reductive to the conversion of wine into vinegar was reductive.

from 4 or 5 months to 8 or 9 days.

The diseases of wines next occupied Pasteur's attentic After discovering the various fungi to which they we respectively due, he proposed to prevent any danger from the by simply heating the bottles when they were well corke for a single minute, to 60° C. (140° F.). There was no dou about the effectiveness of this method, but there remained prejudice among wine dealers against the heated wine Pasteur invited a committee of professional tasters to experment with heated and non-heated wines. They still preferre the latter in point of flavour. Then he asked them to vishim again and to taste the samples without knowing which had been and which had not been subjected to heat. The consented, and the result completely satisfied even then selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that only prejudice had influenced them previously in the selves that the selves the selves the selves the selves that the selves the s

their preference.

Just at this time (about 1865) there was great distress i the South of France, respecting the silkworm disease, which had been, in increasing degree, a national calamity for the past fifteen years. The reduction in the silk production wa sterling per annum. The Government had appointed a con mission, to which M. Dumas was chief scientific adviser. A his earnest request, M. Pasteur undertook, though with extrem reluctance, the investigation of the terrible epidemic. Be taking himself to Alais, he soon learned the extent of th plague. Patiently and laboriously he worked for severa years at his new problem, though in the first hours of his ac quaintance with it he had gone straight to the cause of the trouble. He found minute corpuscles in the blood of the moths were the cause. He found that the germs of these were laid in the moth's eggs, and he concluded that if means could be found for separating infected from healthy eggs the plague would be stayed. His wife and daughter became silkworm rearers, while he studied microscopically the developments of the disease. The story of this long investigation is one of the most interesting episodes of Pasteur's life We must content ourselves by stating that he ultimately triumphed completely. He showed how to collect the eggs of each moth separately; then he showed how to ascertain if the moth was infected; this ascertained the rest is simple. The eggs from bad moths are destroyed, and the healthy ones alone preserved. The success of Pasteur's labour was enormous. The Emperor made him a senator, but the strain on his nerves had been too much for him, and in 1868 he was stricken with paralysis, which brought him nearly to the grave. Scarcely had he recovered some portion of his working strength when the war of 1870 and his country's disasters broke down his sensitive spirit. "The bulletins of defeat, which succeeded each other with mournful monotony, threw him into deep despair. He lived in his little house at Artois as one completely vanquished. Those who went into his room found him often bathed in tears. On January 18, 1871, he wrote to the Dean of the Academy of Medicine at the University of Bonn a letter, in which all his grief and all his pride as a Frenchman were displayed, requesting him to withdraw the diploma of German doctor which the Faculty of Medicine of the University had conferred upon him in

But vigour again returned to him, and the past ten years of his life have produced his most splendid services. After studying and exploring the diseases to which beer is liable, Pasteur was led into more directly medical studies. He aimed to trace the cause of the fatal disease which had decimated the flocks of France and other countries, known there as "charbon," in England as "splenic fever." It was in

udying this disease that Pastcur worked out his scheme of euring safety by inoculation. He traced the disease to a neroscopie bacillus, which he isolated. He proved its rulence. He thought long over Jenner's discovery of a rophylactic means of protecting animals from the danger virulent diseases, and he applied this principle by means f his attenuated cultivations of the virus. In 1881 he gave public demonstration of the truth of his theory by an rperiment on 60 sheep. Of these 10 were not treated at II; 25 were vaccinated by Pasteur's proposed method, ad a few days later these 25 and the remaining 25 were loculated with the virus of splenic fever. A corresponding xperiment was made on ten cows. All were kept together. he third day after the last inoculation a large company met the farm at Melun. Twenty-one of the inoculated sheep ere already dead, the rest died a few hours later; those hich had been previously vaccinated were all in full health. similar experience occurred with the other animals. accination has been widely practised since, and mortality om splenic fever has been reduced to one-tenth what it was efore Pasteur experimented.

These are some of the labours in which this great man has agaged. The long years of patient experiment in the early eriod of his life explain the comparative rapidity with hich he has been able to arrive at his results in his aturer years. But the services he has rendered to his mutry and to humanity are as yet truly so inestimable, at Professor Huxley's observation is in no sense hyperolical, that "Pasteur's discoveries suffice of themselves to over the war indemnity of five milliards of francs paid by

rance to Germany."

SWEET SPIRITS OF NITRE.

(From The Lancet, March 7, 1885.)

PHE composition of sweet spirits of nitre and kindred preparations is a subject which seems destined to disturb the quanimity of dispensers and pharmaceutical chemists. It stated that the Council of the Pharmaceutical Society have ecently thought it necessary to convey their views on the natter to the authorities of the Inland Revenue at Somerset The exact nature of their communication is not nown, but it is understood that the Council maintain that here is no positive evidence that the medicinal value of weet spirits of nitre depends on the presence of nitrous ther, and that any specimen which is of proper specific ravity, and gives indications of containing some nitrous ether, pay be regarded as having been prepared according to the lirections of the British Pharmacopæia. With respect to the weet spirits of nitre of the old London Pharmacopæia, they ere of opinion that the proportion of nitrous ether which it ontains often amounts to little more than a trace, and that he only tests necessary to show that such an article may be considered to be of good quality are those of odour, flavour, and specific gravity. They further state that the tests laid lown in the British Pharmaeopæia, and other tests devised vith a similar object, cannot be supposed to be applicable to reparations sold for domestic use. A common argument used by druggists is, that an article supplied by a large nanufacturer chiefly to medical men has a density of 887, and that although it contains little or no ethyl nitrite, few complaints are made. These views, we must admit, have taken us somewhat by surprise. It would seem that the nuthorities of the Pharmaceutical Society are of opinion that the absence of the chief constituent from a preparation is a natter of very little importance if only the omission is not letected. This is a code of morality to which we are unaccustomed, and we are decidedly of opinion that no pharmacist or body of pharmacists has any right to change the character of a well-known preparation, or to supply an article essentially different from that which the medical man supposes his patients are taking. It is a subject of considerable importance, and one by no means which should be overlooked.

[We reprint the above, not on account of its intrinsic importance, but to show how chemists are treated by at least one of the self-constituted organs of medical opinion. It is possible that the statements made in this paragraph origi-

nated in the representations made by the President of the Pharmaceutical Society to the Local Government Board respecting the official publication of misleading statements concerning the adulteration of drugs; but whatever the foundation, it is certain that no care has been taken by the editor of the Lancet to give either an accurate or a fair report. Pharmacists and medical men have interested themselves in regard to the composition and the therapeutic value of spirits of nitre, but it is only a silly joke to say that "the authorities of the Pharmacentical Society are of opinion that the absence of the chief constituent from a preparation is a matter of very little importance if only the omission is not detected."]

A DRUGGIST'S SHOW-BOTTLE.

A WEAK solution of iodine and iodide of potassium in water gives a pretty crimson colour, and is in much request on this account by chemists for their show-bottles. A very good strength is obtained by using \(\frac{1}{4} \) oz. each of iodine and iodine for a 3-gallon bottle, and to the solution may be added a small proportion, say 1 per cent., of hydrochloric acid. Methylated spirit must not be used to dissolve the haloids, or unexpected results will follow, the probability being that the entire liquid in the show-bottle would be colourless in a few days if in summer, or if in winter in a few weeks. This was many years ago the experience of the writer, who had on one occasion used a few ounces of methylated spirit to dissolve the iodine and iodide before adding the water, and, as the circumstance has recently been recalled to memory, it may probably be of interest to refer to it somewhat in detail.

The reactions involved in the change of colour, or rather in the loss of colour, are complicated, and would, if thoroughly understood, form an interesting chapter in organic chemistry. It was at first thought that the ultimate product of the decomposition was ethylic iodide, which might be obtained in the following manner. It is well known that chlorine and ethylic alcohol react to produce aldehyde and hydrochloric acid, one atom of hydrogen being simply abstracted from the alcohol by the haloid to form the acid, thus:—

$$C_2H_aO + 2Cl = C_2H_4O + 2HCl_4O + 2HCl_4O$$

It is not known whether iodine possesses this power, but in the absence of evidence to the contrary it may be assumed as probable, and in that case the following would occur:—

$$C_2H_5O + 2I = C_2H_4O + 2HI.$$

Hydriodic acid and alcohol when brought into contact undergo decomposition, with the formation of ethylic iodide and water, this being brought about by an atom of iodine and a molecule of hydroxyl, and changing places, thus:—

$$C_2H_5HO + HI = C_2H_5I + H_2O$$
.

Ethylic iodide is a colourless body, but under the influence of sunlight it is decomposed to diethyl and iodine, thus:—

$$2C_2H_3I + C_4H_{10} + I_{20}$$

and the free iodine imparts a brown colour to the liquid.

As it happened, however, that the liquid remained perfectly clear even in the direct rays of the summer sun, this operation was rendered doubtful, and, with the view of settling the point, a series of solutions were prepared and exposed to the light.

These were composed as follows:—

- 1. Iodine, and iodide of potash and water.
- Iodine, and iodide of potash and water, with 1 per cent. hydrochloric acid.
- Iodine, and iodide of potash and water, with 2 per cent. methylated spirit.
- Iodine, and iodide of potash and water, with 2 per cent. rectified spirit.
- Iodine, and iodide of potash add water, with 2 per cent. methylated spirit and 1 per cent, acid.
- 6. Iodine, and iodide of potash and water, with 2 per cent. rectified spirit and 1 per cent. acid.
- 7. Iodine and methylated spirit.
- 8. Iodine and rectified spirit.

Within three weeks, during which time the sun was seen on two days only, solution No. 5 was almost colourless, No. 7 was in mucb the same condition, and No. 3 had begun to change, while all the others were unaltered in appearance. Singularly enough, these three solutions are those in which methylated spirit was used, and it therefore follows that we must look to the methyl rather than the ethyl for an explanation of the reaction.

This source is all the more probable since it is well known that hydriodic acid acts energetically on methylic alcohol, provided the conditions are favourable. If we take No. 5 solution, in which the change took place most rapidly, we have still further confirmation of this bypothesis, as in this particular case the hydriodic acid is ready formed without waiting for the iodine to act on the spirit at all. The iodide of potash and the hydrocbloric acid suffer double decomposition, thus:—

KI + HCl = KCl + HI

and the hydriodic acid thus formed acting on the methyl produces methylic iodide, thus:—

 $C_2H_4O + HI = CH_3I + H_2O.$

This explanation does not, it is true, account for the disappearance of the free iodine, but it is extremely probable that the rearrangement that takes place is hastened by catalytic action, so that when once the reaction has been started, it proceeds until all the iodine is ultimately transformed into iodide.

That the methyl has to do with the decolorisation rather than the ethyl is evident from the fact that the plain solution of iodine in methylated spirit lost its colour, while the solution in rectified spirit was quite unchanged. It may happen, however, that impurities in the methylated spirit may have something to do with the loss of colour, but the probability is that any foreign body would be present in too small a proportion to affect the result; and the likelihood, therefore, is that the change is due to the action of the methyl on the fodine.



TRANSFER OF BUSINESSES: A QUESTION OF COMMISSION.

HINE GILBERT V. WATERHOUSE.

Thus was a remitted action from the High Court, and was tried last month in the Ramsgate County Court, before Judge Selfe and a jury of five. Our report is taken from the Kent Coast Times.

Plaintiff, George Hine Gilbert, carrying on business as a chemists' transfer agent at 17 Hart Street, Bloomsbury, sought to recover from defendant, Mr. Aquilla Waterhouse, a chemist, formerly of Dewsbury and now in business at 104 High Street, Ramsgate, the sum of 22L 10s., being 5 per cent. commission on the sum of 450L, for which, it was alleged, he had rendered himself liable under a special contract.—Mr. Torr was counsel for the plaintiff, and Mr. G. W. Cburchley represented the defendant.—The case for plaintiff was that in October last he received a letter from defendant inquiring if he knew of a good dispensing and general business, returning 1,000L a year, for sale. Plaintiff replied to the letter on October 14, informing defendant that Mr. Henry Baker, of Ramsgate, had such a business for disposal for 450L, part of which could remain. At the end of this letter there was a postscript to the effect that an order to view was enclosed. On this order to view there was a condition, stipulating that the holder, if he decided to purchase, should pay the usual deposit to Hine Gilbert & Co., who would then make all necessary investigations; and,

further, that, should the purchase be concluded without the knowledge, the purchaser would become liable for the commission. A copy of the writing on the order to vie alleged to bave been sent to defendant was produced in tl plaintiff's letter-book, but it did not follow the letter and wa Copies of letters sent by defendant t not indexed. Mr. Baker, and the latter's reply thereto, were put in; also further letter from plaintiff to defendant asking for a interview before he (Mr. Waterhouse) proceeded to Ramsgate On October 20 defendant called at plaintiff's office, and a the conclusion of the interview which took place, it wa alleged in evidence by Mr. Gilbert and bis clerk, Mr. Tburgood, that Waterhouse produced papers from his breas pocket, on the top of which was their order to view, and tha he, alluding to it, asked whether it would be sufficient intro duction. On November 19 plaintiff wrote, "Kindly let u. know your decision as to purchase or otherwise of Mr. Baker, business." Defendant replied on the 20th, stating that he was sorry to say that he had purchased Mr. Baker's business on October 22, and that afterwards he found there was a bill of sale on the stock-in-trade and furniture for 110%. He added that there was a warrant out for Mr. Baker's arrest, and concluded by expressing surprise at plaintiff not having informed him of the bill of sale. Plaintiff immediately wrote back repudiating any knowledge of the bill of sale; informing defendant he would get no sympathy from them; that as he had helped Baker in avoiding payment he bad become liable himself; handing him their account (assuming the purchase-money was 450l.), and requesting immediate payment.—Mr. Churchley, in cross-examining plaintiff, asked him what be had done for defendant to entitle him to this money?-Plaintiff: Helped him into a business. (Laughter.) -Mr. Torr pointed out that there was no claim for work done, and that he relied entirely on the contract.—Cross-examination continued: Plaintiff said defendant never wrote accepting his terms, and he was never informed that the commission was 5 per cent.—The case for the plaintiff was concluded with the evidence of Mr. Mongo Wills, chemist, of 2 Orange Street, Red Lion Square. He was present at the interview on October 20, and gave defendant some particulars as to Baker's business, having been to Ramsgate to see it for him-He saw defendant take some papers from bis pocket and bandle them, but could not say what they were. Defendant asked at the same time, "Will this order do?" and Mr. Gilbert replied, "Ob, yes."—Mr. Churchley: Did defendant say, when handling the papers, "Will this be sufficient introduction?"—Witness: No, it was not tbat.

Mr. Churchley, for the defence, submitted that there was no case for him to answer, because it had not been proved that there was any acceptance of the contract. Besides, defendant would pledge his oath that he did not receive any order to view from plaintiff. He never pointed out the omission because an order to view from Gilbert was not necessary, Baker's business having been advertised for sale in the Pharmaceutical Journal. A man generally paid for services rendered, but what services had the plaintiff rendered defendant? Baker might have agreed to pay plaintiff commission, but Waterhouse did not, and it was monstrous to suppose a man could have liabilities thrust upon him bec. us he wrote and made inquiries—perhaps about the rent of a house.—Defendant, in evidence, denied that there was an order to view enclosed with plaintifi's letter of October 14. He purchased the business of Baker on October 22. He had not the slightest idea he would be called upon by plaintiff to pay commission. At the interview with Mr. Gilbert on October 20 he might have pulled a time-table out of his pocket, but nothing else. He asked plaintiff what be wanted him for, and he replied that it was to inquire if he had sufficient money to buy with. He replied that he had if the business suited him.—Cross-examined, witness said he gave 4001. for the business. Did not recognise plaintiff as his agent, and was unaware that Baker would run away.— Re-examined: Had applied to several agents, and bad an order to view (produced) for this very same business from Taylor & Co. He paid 250l. down since, and Baker had offered to forego 40% if he would pay the bill of sale out (110%).—Mr. Toir: Can you give me Mr. Baker's address?— No, sir; I want to find him-(laughter).-Mr. Ben Twyman (Twyman & Sons), Mr. John Marrable, and Mr. Richard George Chute, of Pimlico, were then called to give evidence as to the usual percentage charged in transfers of businesses. ney agreed that 5 per cent. was generally charged on the st 1001., and 2½ per cent. beyond that sum.—Mr. Torr aving replied, his Honour directed the jury at considerable ngth, leaving them to consider whether the order to view as enclosed by plaintiff with his letter of October 14, and, so, what amount Mr. Gilbert was entitled to upon the sale; the business in question.—The jury then retired, and on heir return the foreman stated that they had found a profict for the defendant. They were of opinion that no ontract had been entered into by the defendant, and that norder to view was not sent by plaintiff until after the urchase had been made.—Mr. Torr said he would like to pply for a new trial, on the ground that the verdict was gainst the weight of evidence.—His Honour: That must be application to the High Court.—Mr. Torr: I thought that I had to apply to your Honour I should save time by doing o now.—His Honour: You may go the High Court with an attimation that the judge is quite satisfied with the verdict.—Mr. Torr: I am afraid that will somewhat handicap me.—Iis Honour: I do not think any court would undertake to everse the verdict of the jury. The case has been tried pon its merits, and if it was a County Court action I should ertainly not grant a new trial.

LOANING SYPHONS.

At the Clerkenwell County Court on February 6, before fudge Eddis, Messrs. Barrett & Elers, mineral-water manuacturers, of Vauxhall Road, sued the Chemists' Aërated Waters Association (Limited), of Gifford Street, N., for the lelivery of six dozen syphon bottles bearing their name and trade-mark, valued at 7l. 10s. Mr. Rendall Moore appeared for the plaintiff, and Mr. Jones for the defendant.

The case arose from a letter received by plaintiffs from the secretary to the defendant company, stating that the latter had in their possession six dozen of plaintiffs' syphon-bottles, and asking them to exchange them for plain syphons or allow for them. The plaintiffs, however, stated that they loaned the syphons to their customers free, and they therefore claimed that these bottles were theirs, and must be returned to them unconditionally. For the defence it was stated that there was a clearing-house system in vogue for such bottles, so that each manufacturer got his own bottles back.

The Judge said that, as these bottles bore the name and trade-mark of the firm, anyone else using them would be guilty of fraud, and an injunction for infringement of trade-mark could be obtained. He imputed no fraud to the defendant company, and the best proof of their good faith was that they themselves had written to tell plaintiffs that they had their bottles in their possession. The clearing-house system might exist, but there must not be a price set upon a man getting his own goods. Messrs. Barrett had a perfect right to demand the bottles from the company.

SUICIDE.—On February 24 an inquest was held on the body of Mr. William Man Covell, chemist, 302 Mare Street, Hackney. On the previous Sunday afternoon he had been found unconscious on a couch with a measure-glass near him nearly empty and smclling strongly of prussic acid. Dr. Slimon, of Mare Street, was immediately called in, but before he arrived the man was dead. The evidence showed that he had no domestic or monetary troubles, but had recently given way to drink. On the Saturday night he was in a highly-excited state, and complained that he had had no sleep for five days and nights. The jury returned a verdict of suicide while in an unsound state of mind.

THE SUPPER OF THE PHARMACEUTICAL FOOTBALL AND CRICKET CLUBS took place at the Holborn Restaurant on Wednesday, the 11th inst. Professor Attfield was in the chair, and Mr. Michael Carteighe acted as vice-chairman. The guests numbered over fifty. Mr. Tupholme, the captain of the Football Club, stated that during the season out of eleven matches seven were gained. Mr. Pemberton replied for the Cricket Club. The toast, "The Pharmaccutical Society," was proposed by Mr. Coalter H. Ince, who showed the relation between the Football Club and the Society, and was replied to by Mr. Michael Carteighe, the vice-chairman. A number of songs were interspersed with the speeches.

BANKRUPTCIES AND LIQUIDATIONS.

George Hull, Druggist and Drysalter, Birmingham.
This case was reported last month. At the public examination, in reply to Mr. Sharp, the official receiver, the debtor said that he commenced business about forty years ago as a grocer and drysalter with a very small capital. In the course of time he accumulated a capital of nearly 10,000l. He had a son-in-law named William Winby, an engineer, on whose account he entered into heavy responsibilities. Winby went into business as an engineer, and he (the bankrupt) became responsible for 7,200l. on his account. He had paid off that amount with the exception of 3,000l., still owing to the bank which made the advances. On March 7, the official receiver approved a composition of 6s. in the pound secured, payable by three equal instalments at one, two, and four months, which had been accepted by the debtor.

GEORGE EDWARD INGER, 7 High Street, Nottingham, Chemist, Druggist, and Optician.

THE following is the list of creditors:-

					£ 8, d.
Ross & Co., Belfast					17 11 7
Thompson, W. H., Birmingham					12 10 0
Murritt, Mrs., Derly					20 0 0
Valentine & Sons, Dan lee		• •			14 0 0
Fry, S., & Co., Kingston-on-Tham	es	••			33 17 6
Atkinson, J. J., Liverpool					75 5 10
Allen & Hanbury, London					19 14 7
Archer, A., London					23 4 4
Collett, Dodds & Co., Londo 1					11 3 2
Evans, Lescher & Webb, Lon lou					60 14 10
Hare, G., London					10 2 6
Harker, Stagg & Moss, London					19 18 0
Huon, A. E., London				٠.	68 11 11
Langton, Edden & Co., London					33 2 I
Maw, Son & Thompson, London					16 4 11
Pilcher & Son, London					25 18 1
Scholzig, O., London					13 6 9
Spicer Bros., London					59 10 6
Thompson, Millard & Co., London	١				15 1 9
Bowker, Miss S., Nottingham					93 5 2
Inger, Miss A. E., Nottingham					120 0 0
Joint Stock Bank, Nottingham				• •	200 0 0
Parker, W. H., Nottingham					75 0 0
Parsons, Son & Pierce, Nottingha	1111				20 0 0
Truman, P. P., Nottingham					50 0 0
Keyzor, Ben & Co., Paris					46 12 0
Laverne, A., Paris					80 10 0
Bowker Dean, Wisbech			• •		20 0 0
Creditors under 101					123 6 4

JOHN LITCHFIELD, Longton.

A PETITION has been filed in the Stoke-on-Trent and Longton Bankruptcy Court, by John Litchfield, of High Street and Utoxeter Road, and earrying on business at 50 High Street, Longton, as a chemist, druggist, and seedsman. A meeting of the creditors was held at Stoke-on-Trent on February 24. The liabilities were 1,458l. 10s. 4d.; assets, 317l. 7s. 1d., and deficiency, 1,141l. 3s. 3d. The debtor, who attributed his failure to the pressure of creditors, made an offer of 5s. in the pound, which was declined. The following day the public examination was held before Mr. Keary (registrar) at Stoke-on-Trent. In reply to the official receiver, the bankrupt stated that he commenced business in partnership with his father in 1874, the assets being estimated to produce 1,000%. He had no money of his own, and he gave his father a promissory note for 500l., towards which he had paid 50l. a year and the interest. In 1879 his father retired, the debtor at that time owing 1,232l., on account of his having increased his share by adding private money to the partnership. No stock was taken when the partnership was dissolved, nor was any valuation made; he accepted his father's figures as correct. His turnover had amounted to 1,000% a year, but it had fallen off latterly. He made a profit of 350l. the first year that his father retired; but the amount had diminished ever since. His stock would be worth about 500l., but lieinsured it for 1,000l., because he did not actually know its value. He did not find that he was in difficulties until he opened a second shop in December. His wife had a private income, but he did not know what amount it was.



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MESSRS. ALLEN & HANBURY'S ADVTS (See pages 36 and 148.

SEE SEABURY & JOHNSON'S Advertisement of INDIA-RUBBER POROUS AND SPREAD PLASTERS on page 173.

SCHIEFFELIN & CO.

See page 148.

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See page 90.

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PHARMACEUTICAL PROGRESS.

WE have no desire to put the question in a cynical spirit, but we may be permitted to eonsider for a moment what is the ideal condition of pharmaceutical development towards which the active promoters of our societies, eongresses, conferences, and associations are aiming? Perhaps it would not be a very inaccurate guess to assume that possibly but fcw of them have any fixed views as to ultimate objects, but that they are only obeying that law of life which makes movement a necessity. And yet we presume they would hardly like to believe that their activity is systematically purposeless. Immediately purposeless, of course it is not. They strive after a certain object vigorously; the object is probably desirable in itself; the striving is even more likely to be useful; but in these efforts they invariably use expressions about the progress, the elevation, the advancement of pharmacy, which suggest a vague sort of aspiration towards a higher condition which it would seem they have some hope of attaining either for themselves or for their successors.

Movement is the law of life; stagnation is associated with decay and death. We rejoice in the many evidences of life which present themselves in the pharmaceutical world,

en though in many cases it may not be said that the penditure of energy involved is economically justifiable. It instance, we have watched for twenty years past the subation of an International Pharmacopæia—a scheme ich has had the benefit of the advice, the thought, the eaches, and the writing of the picked pharmacists of rope and America. Committees have cogitated, reports we been drafted, and vast masses of correspondence have an issued, ostensibly to promote this useful but not mendous project; and we are not yet within measurable stance of the moment of hatching. Indeed, it would be staphorically correct to say that the egg has not yet been d.

In this country, in Germany, in France, in America, and erywhere, in fact, we see an everlasting war being carried in pharmaceutical and medical societies against the secret-dicine trade, or the "secret-medicine swindle," as its tterest foes are fond of designating it; but the secret-edicine trade or swindle proceeds on its course with giant rides as uninfluenced by the general indignation as was a Atlantic Ocean by Mrs. Partington's mop.

It is not necessary to multiply examples; the point is the astefulness of associated labour. Not that the labour is asted in every sense. Mrs. Partington failed to put the can back, but she was all the better herself for the exerse; and perhaps, if the International Pharmacopæia never its afloat there will have been sufficient benefit resulting om the assembling of themselves together to compensate is international pharmacists for their labours.

But what is the ultimate goal? When we have got an iternational pharmacopœia, a curriculum for our students, a osition on the Pharmacopœia Committee, and the Minor samination divided, what do we hope for as the result? it commercial benefit, social position, or some possible ioral improvement in our lot? Is there any distinct intenion of working for Government protection of pharmacy such is prevails in Germany? That would be a good solid object of set before ins. But no one in this country seriously intertains any such anticipation; or, if any do, it may be uentioned that there is a growing desire in Germany for he abolition of the concession system, so that it would be lifficult to show which party represented true progress.

The truth is, progress is not indicated by resolutions nor even by Acts of Parliament. It is assured by individual efforts, by individual energy, by individual integrity. These will secure commercial, social, and moral advancement now is they have done in the past, and pharmaceutical progress—that is, the progress of the pharmaceutical body—is contingent much more on an increased proportion of skilful and honourable members of that body than on any artificial regulations, no matter how cunningly devised, which the combined skill of our Council or Conference can elaborate.

DISPENSING AND RETAIL PRICES.

The principal of one of our dispensing establishments had one day lately the experience of two hours' hard and constant prescription-dispensing. This somewhat unusual and uninterrupted flow of dispensing-work prompted him to calculate the result of his two hours' labours, and he found that the total receipts for the medicines prepared amounted to about eleven shillings. The prescriptions were of the usual kind, namely, pills and powders, from half a dozen upwards; mixtures, the majority small; a blister, an ointment, and one or two sundries, more or less troublesome to dispense. The revelation that a working day of twelve hours of heavy harassing mental and bodily labour would only yield at this rate a return in revenue (not profit, let it

be noted) of about three guineas was rather startling, as showing that higher pharmacy could not, after all, be the paying concern that many suppose it to be. No doubt it may be said that the prescriptions in this instance must have been exceptionally insignificant to have yielded such paltry returns, but we have no reason for supposing this to be the case. Some prescriptions do probably pay better than others, and a run of such might increase the total amount in a given time; but we believe it is a fact now well recognised that physicians' prescriptions are not so remunerative as they were some years ago, owing to the very general concentration of remedies, and owing also to the smaller quantities more frequently prescribed in the present day. Be this as it may, we mention the above circumstance for the purpose of showing, first, the possibility that dispensing of itself, and without the various other accessories of a modern pharmacy, may not prove remunerative, if it be even made to yield a bare subsistence; and, second, that it is, consequently, a suicidal policy to permit any department to slip from the grasp of pharmacists which they presently possess, or to neglect the cultivation of any other that may legitimately lie within their

The question of patent medicines has been a vexed one for a considerable time, but, in the light of the facts just stated, is there not some reason for reconsidering the position which they presently occupy in relation to pharmacy? Notwithstanding the aversion which many have to them, it cannot be denied that they are a legitimate offspring of pharmacy, and belong by right to it more than to any other department of industry; nor can it be denied, further, that very much of the present aversion to them is owing more to the general cutting of prices than to any principle involved in the keeping or sale of them. Now as regards prices, what are the facts of the case? Patent medicines require no skill on the part of the vendor in preparing them, or time in dispensing them, and, unlike prescriptions, there is no risk involved as regards errors, with all their accompanying penalties direct and indirect. They merely require to be wrapped up and handed over, and for this act a profit is expected greater than that derived from a vast majority of dispensing transactions requiring time, carc, skill, anxiety, risk. There can be no comparison between the two transactions, looked at from any point, and yet they are brought to the same standard as regards the profit they are made to yield. Of course the argument may be made to cut both ways, and what has been said may be held to prove that in many cases dispensing charges are too low, and that they might be reasonably increased. We are willing to allow that this may be so in many cases, but the argument is written in face of the threatened, and, as a matter of fact, in many instances, all but accomplished, extinction of the retail patent-medicine trade; and in such circumstances we think it would be well to ask if one-third profit is not too much to demand or expect for the mere commercial transaction of handing over any article. A judicious decrease in the profits in this direction, and a still more judicious increase of charge in the case of troublesome and petty dispensing would, to some extent, counterbalance matters, and relieve a difficulty at present much felt, and which is every day threatening to become more serious.

Again, if stores are not causing so much talk, or producing so many letters of declamation at present as they did some time ago, we fear that it is not owing to the evil being less or likely to grow less, neither is it owing to any united energetic plan of action being agreed upon to meet and overcome the evil. The increasing silence is more that of despair or indifference begotten of the adage that "What cannot be cured must be endured." But can this evil not be

cured? On what principle, for example, do stores operate? On the principle of encouraging small sales and multiplying customers, or of giving one pennyworth for three farthings? Certainly not, for they at least have learned that under no circumstances would the policy pay of selling cheap in the small. They consequently hold out the inducement of cheapness in quantity, a policy which chemists have all along too much ignored. For thirty years we have heard the cry, "Keep up the prices; medicines are like nothing else, for cheapness will not increase the consumption." And so "Keep up the prices" has become almost a watchword, until prices have come to be regulated, not so much by the nature of the substance sold or the quantity sold as by a formulated relation of profit to the shilling. Again, we ask, is it wise in the face of an energetic and ever-increasing opposition to uphold such a fiction or to fly in the face of all sound commercial principles? There is no monopoly, and there never will be a monopoly in the more strictly commercial transactions of chemists, and the prices can, therefore, never be kept up by any combination, however complete, so long as trade is free to all and sundry outside of the combination. Let this be recognised and acted upon; let there be a readjustment of prices, particularly in quantity and of substances more commonly used; let ordinary commercial principles and common sense discriminate between transactions large and small, with risk and without risk, of substances seldom used and largely used, and we venture to predict a speedy termination of very much of the opposition and general cutting of prices at present experienced by chemists.

THE SALE OF MEDICINAL WINES

THE Board of Inland Revenue have lately investigated some of the various preparations sold as medicines, with or without a patent-medicine stamp attached. We understand that they have intimated to the wholesale houses that a preparation known as Coleman's Meat and Malt Wine may only be sold, wholesale or retail, by persons holding a proper wine licence.

We asked the Board whether any specific rule could be given respecting the legality of selling such preparations by chemists, and in reply to this inquiry we are informed (5,544-85 J.) that the Commissioners of Inland Revenue " are in the habit of allowing vinous and spirituous compounds to be sold with only a Patent Medicine Label, if prepared in accordance with some formula in the British Pharmacopæia. If not so prepared, or if not medicated, such compounds, whether labelled or not, cannot be sold either wholesale or retail by a person who does not hold a proper Excise licence." The "specific rule" is not very clearly laid down, but we take it that the Board do not wish to interfere with the sale of bona-fide medicines, but that preparations which partake rather of the nature of beverages than of medicines cannot be sold, except with a wine licence. How much medicine would make a preparation "medicated" in the view of the Board is probably a question which it would be difficult to define exactly.

PROOF OF AGENCY.

THE pharmaceutical authorities at Melbourne, while endeavouring to enforce their legal rights in the public interest, have been met by a legal quibble which seems ingenious and novel, notwithstanding its obvious strategic character. The Society prosecuted a Chinaman for illegal sale of opium. Proof was given of the sale in the Chinaman's shop, and it does not seem that either the sale or the ownership of the shop was disputed. But it was contended, as we understand,

that on the prosecution lay the burden of proving that t assistant actually making the sale was the bona-fide agent the defendant. The prosecutors responded, in harmony wi common sense, that when they found A serving in B's sh and doing B's work, the presumption was sufficiently reaso able that he was B's agent, at all events unless B could off fair rebutting evidence. But the temptation of giving tl legal subtlety precedence over the common sense view seen to have been too strong for the magisterial mind, and decision was consequently given in favour of the defendant's conter tion, two guineas costs being granted against the Pharma ceutical Society. At the date of our last letter from Melbourn appeal had been made to the Supreme Court on behalf of th Pharmaceutical Society, and the result will be awaited wit interest. Without knowing how far the law would permit if it appears to us that the question of agency in such a case a this is not a legal point at all; if the case were tried before jury the question of A's relationship to B would surely be submitted to the jury, and when a magistrate combines the duties of judge and jury he ought to decide what are fair jury questions from a reasonable and not from a casuistic point of view.

REGULATING THE PRICES OF PATENT MEDICINES.

FAILURE OF THE AMERICAN EXPERIMENT.

THE Campion plan, a scheme which was elaborated with the intention of checking the cutting of prices of proprietary medicines, and which has been in operation in many of the chief cities of the United States for the past six months, has now broken down, and has left the retailer in a worse condition than before the experiment was attempted. The system was started in New York amid a good deal of enthusiasm. The chief patent-medicine proprietors gave their signatures, as also did most of the wholesale distributors. Each pledged himself, subject to certain notice of discontinuance, to supply to no one whose name should be put on a "cut-off list." A committee was appointed to draw up and add to that index expurgatorius, and it was expected that in a little time the "scalpers" would run their stocks dry, and that only legitimate vendors-that is, those who sold at full priceswould be able to supply the public demand. Evidence of any firm supplying any one whose name was on the "cut-off list" ensured for the accused the doubtful fame of companionship in that record, and the proprietors adhering to that plan were thereupon bound to stop the supplies to the newlyadded name. At first, victory was shouted in anticipation. All parties contratulated each other, and there was great rejoicing. But the cutting firms made the most of the business. They circulated millions of handbills to prove to the public how the jealous traders were trying to suppress their beneficent actions. And, somehow or other, no one seems to know how, they never got short of stock. But they closed their accounts with the houses that did refuse to supply them, and gave big business to firms who kept clear of the Campion plan. Then discontent arose; philosophers stepped in and explained how impossible it was to dam up the natural currents of trade, and one or two houses broke away. The Committee considered the time ripe to show vigour, and, therefore, on what was said to be insufficient evidence, they put the big firm of McKesson & Robbins on the "cut-off list." Then the owners of St. Jacob's Oil withdrew, and this and other circumstances brought the proprietors together in eonsultation, and on February 11, after a meeting at Philadelphia, they resolved in a body to abandon the system. The result is not encouraging to the ingenious advocates of similar schemes in this country.

CUTTING BUSINESS-RESULT:

AT 1e Stockton Bankruptcy Court, Mr. G. R. Toogood has her narrating to the Official Receiver his experience of "c1 trading" on a large scale. Mr. Toogood was the first in the listrict to cut up the patent-medicine trade, and his his y is notable. He began business, in 1870, with no call. In 1876 he took stock, and found himself about 1001. e good, but the record of the stock-taking had got de yed. Affairs were going on too slowly, however, it wol seem, as at that date Mr. Toogood enlarged his reses and "attempted to copy the Civil Service Stores." He did very large trade, the turnover averaging for the eight 25,000% a year. The statement of affairs shows that, s losses and personal expenses, Mr. Toogood spent 0(17s. 8d. for every 100l. that he took throughout the ig years when he "copied the Civil Service Stores." He ttutes his failure to want of capital, a theory which is n more senses than one. Had he had a fair supply of al il to start with he would perhaps have been more careful iit. The customers who bought 100l. 17s. 8d. worth of for 1001. from him got the benefit, but neither Ir foogood nor his creditors get any thanks for their b lity now that the inevitable result of a disregard of hows of arithmetic has come to pass.

RANSFER OF BUSINESSES-THE AGENT'S COMMISSION.

GULAR case is reported from Ramsgate which may be erest to many present and future owners of chemists' usesses. A transfer agent sued a chemist for commission a e purchase of a business, on the grounds that he had it to this purchaser an "order to view," that is, an introducing to the vendor, and that on that order to view was pried a condition stipulating that, should the purchase be of uded without the agent's knowledge, the purchaser we become liable for commission to the agent.

om the available reports of the hearing at the Ramsgate ty Court we cannot gather with sufficient clearness what the ty Court we cannot gather with sufficient clearness what the ty Court we cannot gather with sufficient clearness what the ty Court we cannot gather with sufficient clearness what the discount of the case to go on after the plaintiff's claim had submitted. No evidence of any contract appears to have given. The words printed on the "order to view," in sexpressly agreed to by both parties, could have had no in geffect on the person to whom the order was given; in the fact that the agent had failed to obtain his commission from the vendor could give him no claim on the purchar, unless he sued the latter as bailee of the vendor. The ct was given in favour of the defendant, but it would been more satisfactory if it had been given clearly on round that the claim was not a valid one.

e understand from good authority that it is quite control to the ordinary custom for agents to make any charge to urchasers. But, with this experience in view, we would asse negotiators in all cases to refuse absolutely any "order to iew" which did not make it quite clear that no such a could be preferred. An agent may be expressly en loyed to purchase, and then, of course, he has a right to his commission; but he has no right to a claim from both our and seller.

e hear from the Secretary-General of the Brussels Internal and Pharmaceutical Congress that the Committee all inted to carry out the arrangements regret that the cutive Committee of the British Pharmaceutical Conference to found it convenient to alter the date of their mbly. The two meetings will not exactly coincide, but interval between the close of the Congress and the open-

ing of the Conference allows only one clear day. But the Secretary of the Brussels Committee asks us to express to all professors, pharmacists, chemists, and all persons interested in pharmaceutical sciences their cordial invitation to the Congress. It has been found impossible to alter the date of that event, but it is proposed to give the first place in the programme to any subjects for discussion which may specially interest English pharmacists. They desire that it may be understood here that they carnestly hope to welcome a large contingent of British visitors to the Congress.

The Charity Commissioners have drawn up a remarkable scheme for the reorganisation of Christ's Hospital—the famous Blue-coat School. The chief features of the proposal are the establishment of a large school in the country, the admission of girls to the benefit of the endowments in almost equal proportion to boys, instead of as at present to a merely fractional share thereof, and the establishment in London of a science school for boys. In this it is intended to give, besides a general education, special practical teaching of chemistry, drawing, and the use of tools. The benefits of this school are to be for London boys; the fees to be paid are to be between 5t and 10t a year; but 300 free places are to be reserved for suitable boys from the Board Schools, and to 150 of such selected students a payment of 20t a year is to be made. The scheme has yet to be sanctioned by the Education Department and by Parliament, but as an indication of the recognised necessity of more exact scientific teaching it is worthy of note.

The scheme of establishing a School of Pharmacy in Dublin on the limited liability principle offers an excellent opportunity for Irish pharmacists to display their zeal in the diffusion of pharmaceutical knowledge, but will hardly tempt investors who regard the scheme from a financial point of view. The number of candidates who presented themselves last year to be examined for the Society's licence was thirty-four, in the previous year it was seventeen. The College would have no prospect of getting more than a fraction of these students, and with the abundant facilities which Dublin possesses for teaching chemistry and materia medica the chance of attracting other clients is not very reliable.

A Pharmaceutical Association in the Northern section of this kingdom has down for discussion a question which can easily ramify into infinite variations, and will admit of much easuistic argument. The members are guided by a pricebook, which fixes the retail price of crushed linseed at 8d. per lb. for 1, 2, or 3 lbs., but says that 4 lbs. or upwards may be sold at 6d. per lb. The point to be decided is, how many pounds should be given for 2s.?

The case of Barrett & Elcrs v. the Chemists' Aërated Waters Association (Limited), shows how necessary it is to be careful in receiving empty bottles with the name of another firm branded on them. A mineral-water journalistic contemporary considers that the decision points to a very simple means of preventing the employment of a maker's bottles by other makers, a county court summons being a much simpler proceeding than an action for infringement of trade-mark. But it should be observed that the county court summons is only available when the bottles or syphons have been lent by the maker. If Messrs, Barrett had sold their syphons the customer might have sold them to the Association, and the latter might have kept them; but if they used them they would then become liable to an action for infringement of trade-marks.

We note with pleasure the publication of the third edition of the "Latin Grammar of Pharmacy," by Mr. Joseph Incc. Some additions to the illustrative prescriptions are added in an appendix. Evidently the work is destined to be a standard one among pharmaceutical students.

The influence of the anti-vivisectionists has been remarkably demonstrated by the rally of their forces in the Oxford Con-

vocation, on March 10. They had no chance of a definite victory. Oxford had voted 10,000% to found a physical laboratory, and to refuse to grant 500% a year to maintain it had an air of absurdity. Besides which, every possible concession had been made. No painful experiments were to be allowed for demonstration to students, with or without anæsthetics, and it was only demanded that the professor should have the right of holding a licence for the purpose of scientific research. Manymust have felt that unless vivisection experiments were to be suppressed entirely no place so fit for them could be found as the physiological laboratory of Oxford University. But the anti-vivisectionists risked battle on this unfavourable ground, and they mustered 244 votes out of an assembly of 658.

It is not intended to publish any handbooks in connection with the Inventions Exhibition, such as were issued under the authority of the Council of the Health Exhibition. There will instead be separate prefaces to most of the sections of the catalogue, and these introductory notices of the various groups of exhibits are being contributed by gentlemen well known to have special knowledge of the subjects with which they will deal. Among those who are writing group-prefaces are Sir William Armstrong, C.B., hydraulic machines, &c.; Sir E. J. Reed, M.P., naval architecture; Col. Sir Henry Nugent, R.E., firearms, military weapons and equipment, and explosives; Professor Oliver Lodge, electricity; Mr. A. Vernon Harcourt, gas and other illuminants; Capt. Douglas Galton, F.R.S., C.B., railway plant; Professor G. Carey Foster, F.R.S., philosophical instruments and apparatus; Capt. Abney, R.E., F.R.S., photography; Mr. Barclay Squire, musical instruments and appliances, &c.; Professor Armstrong, F.R.S., applied chemistry and physics; Professor Unwin, machine tools and machinery; Mr. Swire Smith, manufacture of textile fabrics; Dr. Hugo Müller, F.R.S., paper, printing, bookbinding, &c.; Mr. E. Rigg, clocks aud other timekeepers; Professor H. S. Hele Shaw, elements of machines; Mr. G. Snellus, fuel, furnaces, &c.; Mr. H. M. Jenkins, agriculture, horticulture, and arboriculture; Mr. H. Bauermann, F.C.S., mining and metallurgy; and Mr. W. Anderson, M.Inst.C.E., on prime movers and means of distributing their

The City Press has published complete lists of the London and Provincial tradesmen who hold warrants of appointment from the Lord Steward, with authority to use the Royal Arms.

Here are the names of the London chemists:-P. W. & A. H. Squire, 413 Oxford Street; Savory & Moore, 143 New Bond Street; George Waugh & Co., 177 Regent Street; John

Beddard, 46 Churton Street, Belgrave Road.

The following are the provincial chemists: - Samuel Kay Brothers, Stockport; Ferris & Co., Bristol; Fisher & Sons, Ramsgate; William Dyer, Halifax, Yorkshire; Thomas G. Gibbons, Manchester; Hopwood & Son, Richmond, Surrey; Edward Grisbrook, Windsor. In Scotland, Duncan Flockhart & Co., Edinburgh; Frazer & Green, Glasgow; Davidson & Kay, Aberdeen; and in Ireland, John Evans, Dublin; Hamilton, Long & Co., Dublin.

For mineral waters there are in London, Blake, Sandford & Blake, 47 Piccadilly; Jacob Schweppe & Co., Berners Street; Taunus Water Company, 21 Devonshire Chambers, Bishopsgate; and in the provinces, Charles Mumby & Co., Portsmouth; Charles James Blelock, Chester; A. & R. Thwaites &

Co., Dublin.

Further we find for scientific, chemical and physical apparatus, Robert C. Murray, 113 Pentonville Road; for sponge, Newton & Cook, 3 Wardour Street; for tallow and soap, Bracknell, Turner & Sons, Haymarket; for water-filters, Spongy Iron Filter Company, New Oxford Street; for chocolate, Joseph S. Fry, Bristol.

Alexander Bohringer, the director of the Fabbrica Lombarda of Milan, has been the subject of several articles in the Secolo, a Milan journal, which we find translated in the Tribune Médieale of Paris. He was the nephew of M. Bohringer, of Mannheim, and had had experience in chemical work. Expelled from France with the Germans generally at the time of the war 1870-71, he went to Milan, and there, with the efficient aid of a certain M. Castelli, who was mainly instrumental in collecting the capital, he formed a conar for the purpose of manufacturing quinine and other che ca with a capital of 2,000,000 in shares of 500f. eacl] was enterprising, adventurous, and resolute, and are possessed the art of winning the esteem of those with 10. he came into coutact. Business prospered, or at an a appeared to prosper, and in 1873 the capital of the court was doubled. The shares were made 1,000f. each, at one time they were quoted at 3,000f. A year beford failure the capital was increased to 6,000,000f. by a file issue of shares. During his reign at Milan Alexde Bohringer was absolute master. No director or shareld ventured to oppose or criticise any of his schemes, a a regarded him as the author and maintainer of them. sperity of the company. He lived in splendid style at lar His apartments, carriages, horses, and stables were the w of the richest. In 1882 he resigned his position as dir or and sold his shares, professing that he was going to for quinine-factory in America. He is said to have acil associated himself with a factory at Stuttgart. Wheth failure was declared Alexander Bohringer fled from lan His brother Christian was technical director in his 138, but news came that Alexander had committed suicidend Christian escaped, professedly to watch his brother's dthbed. Subsequently it is said the liquidators of the corny received a letter in which Alexander Bohringer admed indebtedness to the company to the extent of 1,000,000f

Scientific Notes:

On Chemistry, Pharmacy, Botany, Materia Medica, c. Original, Selected, and Translated.

DETERMINATION OF ALKALOIDS IN CINCHONA BARK SCHIMAYAMA modifies H. Meyer's method (see THE CHE) AND DRUGGIST, 1883, page 184) by not at once shaking the extract of the bark, acidulated with 2 per cent. of phuric acid, with chloroform, but first evaporating it down 20 c.c., filtering, treating the filtrate with 1 gr. of mag a usta, drying over a water-bath, and then extracting the di powder in an extraction apparatus for 11 hour with chloroform. The chloroform extract is first evaporated de at a gentle temperature, then dried at 100° C., and weigh as alkaloid.

COMMERCIAL CARBOLIC ACID.+

CHARLES CASTELHAS, in Moniteur des produits chimiq reports on the various sorts of commercial carbolic acid,: the means of ascertaining their relative value.

Under the commercial name of "crude carbolic acid" d liquids are understood, the value of which depends up their percentage of crystallisable phenol on the one ha

or of cresol on the other.

The value of crude carbolic acid is determined by the unit means of fractional distillation and saponification with caus soda. By the former the percentage of phenol is ascertain by the latter that of cresol, the part admitting of saponific tion representing cresol and other analogous saponifiable t

Fractional Distillation of Crude Carbolic Acid.

Between 90° C. and 100° C. .. water.

110° C. " 180° C. .. light tar oils

180° C. , 190° C. .. chiefly phenol and little cresol 190° C. , 200° C. . . chiefly cresol and little phenol 200° C. , 205° C. . . para cresol

General Tests for Commercial Carbolic Acid.

1. Fifty c.c. of liquid carbolic acid are shaken up in graduated cylinder with 50 c.c. of distilled water. Au increase in the volume of the water indicates the presence of alcoho glycerine, or sodium phenylate.

2. When 50 c.c. of crude carbolic acid are shaken up i like manner with dilute sulphuric acid, any noticeabl increase in the volume of the sulphuric acid likewise indi cates the presence of sodium phenylate.

^{*} Archiv der Pharmacie, February, 1885. † Pharmaceutische Zeitung, February 7, 1885.

One hundred c.c. of crude carbolic acid arc shaken up wi(100 c.c. of a solution of caustic soda (40° Beaumé) and 80(c. of distilled water. The insoluble residue represents the on-saponifiable oils, the saponified portion cresol and its an gues.

Fractional distillation :-

a) Water.

b) Products distilling over between 182° C. and 190° C.

c) Products distilling over between 190° C. and 205° C.

(d) Residuc.

IE ALLEGED THERAPEUTIC VALUE OF VASELINE.

MIELCK, of Hamburg, in the Monatshefte für prak-Dermatologie, states that the human skin is imperle to vaseline, in consequence of which the use of this unce prevents the absorption of such medicaments as it ixed with it for this purpose.

PHARMACOPŒIA COMMISSION OF THE GERMAN APO-HEKER VEREIN ON SOME IMPROVED TESTS FOR PHARMACOPŒIA PREPARATIONS.*

IT.

Chininum Hydrochloricum (Quinine Hydrochlorate).

reign Alkaloids.—Two g. of the salt are mixed with 2 g. of m sulphate and 20 g. of water, and the whole allowed to ta at 15° C. for half an hour, frequently shaking the ire, which is then filtered; 5 c.c. of the filtrate treated immonia until the precipitate formed redissolves should no equire more than 7 c.c. of ammonia for the purpose.

rphium.—A mixture consisting of 0.05 g. of the salt, ops of sulphuric acid, and 1 drop of nitric acid, should oppear of a reddish-yellow colour.

6. Collodium Cantharidatum.

idity—All ethereal extracts of cantharides have an acid zion, for which reason a weak reaction on the part of a larides collodium is permissible.

7. Cuprum Oxydatum.

tric Acid.—When 0.2 g. of the salt is gently heated in a t-tube with 2 c.c. of dilute sulphuric acid and 2 c.c. of a o'ion of ferrous sulphate (1:3), the addition of 1 c.c. of this gulphuric acid to this mixture should not cause the ation of any red or brown ring.

8. Ferrum Pulveratum.

dphur, Phosphorus, and Arsenic.—The hydrogen gas beloped by dissolving 2 g. of the powder in 30 g. of dilute hydrologic acid should not, in the first few seconds, our a piece of bibulous paper moistened with a solution of a acetate (1:10), nor, when burnt, should the flame place dark spots upon a piece of cold porcelain.

9. Lithium Carbonicum.

oreign Alhaline Carbonates.—A solution of 0·1 g. of the s in 1 g. of dilute sulphuric acid, to which 1 g. of water is ed, when treated with 4 g. of alcohol, should yield a clear bid

10. Natrium Bicarbonicum (Sodæ Bicarbonas).

Monocarbonates.—When 2 g. of the pulverised salt are ken up for ten minutes, at the ordinary temperature, in a sed test-tube, with 15 g. of water, so that the tube is quite f, and the solution thereby formed poured off from the issolved residue into a test-tube containing 5 g. of a solution of mercuric chloride, within five minutes a white bidity, but no reddish-brown colouration should ensue.

11. Pilocarpinum Hydrochloricum.

leidity.—A weak acid reaction is permissible.

* Archiv der Pharmacie, February, 1885.

12. Resina Jalapæ.

Foreign Resins.—Two g. of the resin heated for two hours over a water-bath with 10 g. of ammonia in a well-closed glass flask of about 200 c.c. capacity should yield a solution which does not gelatinise on cooling, which, saturated with acids, yields but a slight floculent turbidity, and, when evaporated, but a very small residue insoluble in water.

THE DANGER OF NITRO-COMPOUNDS IN SULPHURIC ACID USED FOR MAKING AËRATED DRINKS. .

At the last evening meeting of the Pharmaceutical Society, Mr. W. A. H. Naylor read a paper pointing out that when nitro-compounds exist in the sulphuric acid used in the manufacture of aërated beverages, the aroma of ginger cssence used to flavour the beverages completely disappears in a few hours. Washing with a column of water 4 feet high does not remove the nitrous gas, and the only remedy is to abandon the use of the impure acid.

RENDERING SEA-WATER POTABLE.

MR. THOMAS KAY, of Stockport, lately read a paper before the Manchester Literary and Philosophical Society in which he suggested a method of making sea-water potable by precipitation. He suggests that every ship's boat should be supplied with a quantity of citrate of silver, which should be used for precipitating the chlorides, leaving the sodium, potassium, magnesium, and other constituents in solution as citrates. The solution would be similar to ordinary effervescing draughts after the gas has escaped; it would be slightly aperient or slightly diuretic if taken in too large quantities, but still suitable for moistening the parched mouth. The expense of the silver would be but a small addition to the capital sunk in a ship, and the interest on it would be a small insurance premium against thirst in case of disaster. The value of the silver would not decrease, and could always be realised if disaster did not occur. The scheme seems practicable if the solution of eitrates is sufficiently weak to be potable; only experience can prove this. The silver, being very portable, not easily identified, and easily reduced to metallic silver, would offer great temptations to petty la rceny.

QUININE ALKALOIDS.*

The inventor has discovered that the alkaloids of Peruvian bark occur in plants of the genus Artemisia, from which they can be extracted either in the ordinary manner or according to the following method:—The fresh or dried flowers and seeds, together with the whole plants (the best is Artemisia Abrotanum Linn), must be chopped fine and digested in diluted acid (sulphuric, hydrochloric acid, &c.). The extracts obtained by the diluted acid are neutralised and precipitated by a base. From the filtered moist basic mixture the alkaloids are obtained by heat with schist-oil, coaloil, or petroleum having a low boiling-point, or by means of alcohol. In the latter case the alcohol must be distilled off, the residue must be treated with dilute acid, and the alkaloid precipitated by means of carbonate of soda or another base. From the solution in the hydrocarbons the alkaloids can be transformed into salts by means of acids, and evaporated afterwards by means of carbonate of soda or another base.—

Journal of the Society of Chemical Industry.

* P. Giacoso. Eng. Pat. 1472, January 15, 1834.

PAPER BOTTLES are now made on a large scale in Germany and Austria. The paper must be well sized, and is composed as follows:—10 parts of rags, 40 of straw, 50 of brown woodpulp. The paper is impregnated or coated on both sides with 60 parts of defibrinated blood, 35 parts of lime-powder, and 5 parts of sulphate of alumina. After drying, ten or twelve rolled leaves are coated again, placed over each other, and then put into heated moulds. The albumin of the blood forms a combination, on pressure with the lime, which is perfectly impermeable to spirituous liquors. These bottles are made in two pieces, which are joined afterwards.

ROTHER ON PERFUMERY.

IN an article on the spiritus odoratus of the United States Pharmacopæia, contributed to the American Druggist, Mr. R. Rother makes some general observations on the science of perfume-making, which we extract.

It has long been empirically known that the presence even in small proportion, of certain solids imparts greater-lasting qualities to perfumes. For this purpose ambergris and musk stand pre-eminent, then follow orris, tonka, benzoin, &c. There is scarcely a compound odour of any note that does not contain one or more of these substances. ing musk, he says, it is strange that so little of the most ordinary physical and chemical properties of such a presumably valuable substance should be known. No modern analysis of musk appears to exist. The Pharmacopæia, in speaking of its solubility, says that one-tenth of it is soluble in alcohol and one-half of it in water. This leaves everything in doubt as to the relative efficiency of these solvents upon the activity and wherein this really resides. The writer, in operating upon the best obtainable "grain" musk, found that strong alcohol readily and completely abstracts the odour and bitter flavour in the formation of a light The residue, when treated with brown-yellow solution. water, yields an insoluble residue and a clear and deep brown-red solution having neither taste nor smell. addition of potash to this solution deepens the colour, and, aside from evolving a little ammonia and imparting a slight soapy odour, like that produced by alkalies with animal tissues in general, no other change was noticed. Therapeutieally it would now be important to know whether the alcoholic solution or the aqueous extraction of the residue contains the medicinal activity. As far as the sphere of perfumery is concerned, this result shows that strong alcohol, pure and simple, is the proper menstruum for extracting musk.

It is a great fallacy to believe that alkalies develop the odour of musk. They strengthen the odour in so far as an abundant effusion of ammonia is concerned, and modify it to the extent of supplanting it with a soapy effluvium. If it is desirable to incorporate an alkali, borax is preferable, as it produces little or no change. In this connection it may not be inopportune to state that borax, in some instances, acts beneficially in regenerating odours that have "turned" or "soured." Some time since, the writer had a large bottle of imported jockey elub bonquet, which shortly after opening acquired a siekening odour. It was mixed with some cheap cologne made of bergamot, lemon, lavender, and tolu, and it tainted the whole. After treating small portions of this mixture with various agents, borax was applied to some of it and appeared to improve it. All the mixture was then treated in a similar manner and filtered after macerating about a week. The product was quite good and readily saleable.

Many of the fine bouquets are produced by copious additions of the tinetures prepared from various flower pomades. Although these valuable adjuncts lend the superficial freshness so much admired, they are oy no means important, as a great number of most excellent odours are generated without their aid. In fact, the jasmine tincture is fairly competent to

replace all others.

A false impression largely prevails that an increased number of ingredients augments the excellence of odours. Owing to this belief and the formidable combinations resulting from its practice, comparatively very few perfumes are compounded in a small way. Most of the best odours are, however, very simple in structure. The art of perfumery consists in skilfully combining a relatively few fundamental odours, so that, whilst effecting their perfect blending, a new aroma results, superior to each component separately. To illustrate this, the following, formula is given as an example of a remarkably sweet and lasting perfume produced in this manner:

	Oil lemon						1/2	fl. drachm
	Oil rose					٠.	40	drops
	Oil orange flowe	ers					15	,,
	Orris root in eo	arse p	owder					draehm
	Tonka bean in o	coars	e powd	er			1	27
	Mnsk in grain						7	grains
	Alcohol, 80 per	cent.					24	ti. oz.
Mix	and macerate for	or se	ven d	lays,	and t	hen f	ilter.	

The improvement the writer would suggest in this I'm is to employ a full strength, highly rectified or deori alcohol, commercially termed "cologne-spirit," an fir prepare with this a tincture of the orris and tonka, toh the other ingredients may be then added, and the ist again filtered after due maceration.

Mr. Rother's formula for cologne water is as under:

Oil bergamot	••		 		12	fl. de
" lemou			 		6	
" lavender flowers			 		2	
" orange		••	 		2	
" rose			 		2	
Mnsk, grain, genuine			 ••		4	gre
Pure spirit			 	••	71	pin
Water, sufficient to m	ake	••	 		8	37

Mix the spirit with 5 fluid ounces of water, and add remaining members of the formula; macerate the ntu for five days and filter.

BRITISH PHARMACEUTICAL CONFERENCE

PHE following colonial pharmacists have been electrical membership of the British Pharmaceutical Conferer :-

> Appleby, J., Bareilly, India Aubin, J., Alexandra, New Zealand Barnsley, J. R., Diamond Fields, South Africa Batbgate, -, Calentta, India Bell, C. R., Grahamstown, South Africa Biekford, A. M., Adelaide, South Anstralia Blackburn, T. F., Nhill, Victoria Bliss, T., Simla, India Borcher, G., Kimberley, South Africa Briau, W. H., Christchurch, New Zealand Chamberlain, G. F., Prahrau, Vietoria Clarke, D., Maryborougb, Queensland Coaker, N., Jagersfontein, Orange Free State Counelly, J., Bega, New South Wales Cook, G. E., King William's Town, South Africa Cooper, J., Adelaide, South Australia Cross, C., Gawler, Sonth Australia Dalton, S. M., Prahran, Vietoria Donaldson, D. D., Dn Toits Pan, South Africa Donaldsou, J. E., Brishane, Queensland Drummond, D., Kiug William's Town, Sonth Africa Dyer, S., Pretoria, Trausvaal Eagles, F. T., Melbourne, Victoria Eeeles, A., Napier, New Zealand Ediuborough, H. D., Sanfernaudo, Trinidad Edson, J., Auekland, New Zealand English, J., Danedin, New Zea'and Evans, P. J., Norwood, South Australia Fleischer, E. T., Humansdorp, Cape Colony Forster, W. M., Mackay, Queensland Fox, F. J., Armadale, Vietoria Fyvie, E., Tarraville, Vietoria Gabriel, R., South Yarra, Vietoria Gardner, C. E., Colesberg, Cape Colouy Gordon, J. C., Winnipeg, Canada Guest, H. W. W., Moonta, South Australia Hansley, W., M. J., Reefton, New Zealand Harrison, C., Prahran, Victoria Hieks, J. A., Brightou, Victoria Hill, T. B., Auckland, New Zealand Hirst, C. E., Melbourne. Victoria Hoeking, W. R., Adelaide, Sonth Australia Hörnemann, L., Stelleubosch, Cape Colony Hugbes, A. E., Melbourne, Vietoria Hughes, C. H., Maryborough, Queensland Hustler, F. F., Port Adelaide, South Australia Joerning, L., Cape Town, Cape Colony Joerning, L., Stellenboseh, Cape Colony Jones, J. C., Riehmond, Vietoria Levey, G. J., L.S.A., Ermels, Transvaal Levien, G. E., Takaka, New Zealand Lower, S. W., Adelaide, South Australia McLaehlan, H. F. M., Winburg, Orange Free State-MeLeau, J. E., Toowoug, Queeusland Making, G. E., Berrima, New South Wales Marshall, M., Duuedin, New Zealand Melhuish, T. B., Sydney, New Sonth Wales Miller, C. B., Graaff Reinet, Cape Colony

Millington, R. S., Inverell, New South Wales Moore, T. F., Waipawa, New Zeal and Morgan, R. S. D., Woodspoint, Victoria Parker, G. A., Hindmarsh, South Australia Parsons, A. B. W., Lyttelton, New Zealand Partridge, T., Darjeeling, Bengal Petit, W., Waimate, New Zealand Pollard, T. J., Lahore, India Preshaw, D. O., Reefton, New Zeal and Reed, F., Durban, Natal Rhodes, G. H., Kimberley, Cape Colony Robinson, J. W., Bultfontein, South Africa Röhrssen, A. B. N., Kimberley, South Africa Rowley, W. M., Melbourne, Victoria Sanders, H. C., Fauresmith, Orange Free State Sanders, R. F., Hamilton, New Zealand Sewell, J. R., Oarmaru, New Zealand Sharland, J. C., Auckland, New Zealand Smith, G., Auckland, New Zealand Smith, J. L., Port Augusta, South Australia Spettigue, J. T., Ladysmith. Natal Stoldart, A. L., Hawthorn, Victoria Sykes, A. E., Napier, New Zealand Thomas, H., Normanton, Queensland Thompson, J. D., Melbourne, Victoria Tueker, W. F. M., East Loudon, Cape Colony Turnbull, J., Hobart, Tasmania Turner, W. O., Pietermaritzburg, Natal Ward, F. W., Naini Tal, East Indies Waring, R. J., Balranald, New South Wales Wineh, P. J., Kadina, South Australia Wragge, G. S., Boulia, Queensland

Personalities.

R. T. DAYMOND, chemist and druggist, Edgeumb Street, sechouse, has disposed of his business and is leaving the

te business of Mr. Dickens, 175 High Street, Poplar, has transferred to Mr. Maitland through Messrs. Edmunds b., Chemists' Transfer Agents, 38 Walbrook, London, E.C.

R. W. BALLARD has bought the business lately conducted by dr. Dawson, at 12 Moscow Terrace, South Hackney, thigh the agency of Messrs. Edmunds & Co., 38 Walbrook,

IR. DAWSON, late of Hackney, has bought the business of M William Ballard, at 56 Battersea Park Road, S.W. Messrs. Eunds & Co., Chemists' Valuers, of 38 Walbrook, E.C., were higents.

R. FREDERICK HOVENDEN has retired from the firm of Henden & Sons, while Mr. C. W. Hovenden has rejoined his blers, and Mr. R. G. Hovenden, son of the senior partner, been admitted into partnership.

R. W. H. Froom (Messrs. Vines & Froom, 75 and 197 Parsgate Street) has been installed Master of the Alders-st. Lodge. Mr. Froom is also a member of the St. Botolph's Ige.

HERE seems to be no immediate prospect of Mr. Holby's princely gifts at Virginia Water being set on foot as gig concerns. The London correspondent of the Maneter Guardian says the Women's College, though nearly upleted and splendidly furnished, was left almost without owment; and though Mr. Martin Holloway and Miss I ver, the legatees, are doubtless anxious to give effect to wishes of the deceased benefactor, there appear to be d culties in the way. The Sanatorium, about a couple of ns from the College, is somewhat further developed, but h also there are unfortunate obstacles. The very able significant philipps, has worked hard sie his appointment to make an effectual start, but he has checked by the necessity for considerable structural m ifications, by the vain search for water at almost unpreand the depths below the surface, and by various other reseen difficulties. It is clear—and it may as well be old vecognised—that the benevolent dream of Mr. Hollo y's life cannot be realised with the resources at present a lable either for the Sanatorium or for the Women's Coge.

Obituary.

GELLATLY.—The American journals record the death of William A. Gellatly, the directing partner in the noted firm of W. H. Schieffelin & Co., wholesale druggists, of New York, which occurred, after a few days' illness, on Feb. 13, in the 54th year of his age.



Mr. Gellatly was born at Edinburgh, Scotland, in 1831, and, at the age of four, was taken by his parents to America. At the age of thirteen he entered Messrs. Schieffelin's establishment as errand-boy, and, after passing through various departments of the business, always qualifying himself as he moved upwards for something better, he was admitted to partnership in 1860. Last year he was president of the Wholesale Druggists' Association of the United States, and whenever cembined action was taken by the trade Mr. Gellatly was always looked to as a natural leader. Mr. Gellatly is referred to by all who knew him as a man of eminent ability, of amiable manners, and of high Christian character.

BAMFORD.—On February 14, at 33 Carrington Street, Parkway, Liverpool, after a short illness, Thomas H. Bamford. Aged 40. He had been the confidential assistant to Mr. Flint, druggist, Ranelagh Place, for upwards of fourteen years.

BENNETT.—On February 22, at 14 Union Street, Plymouth-Bolina, the beloved wife of R. M. Bennett, chemist Aged 48.

BARNES.—On February 26, Mr. Francis Joshua Barnes, chemist and druggist, Upper Parliament Street, Liverpool. Aged 34.

CLARABUT.—On February 9, Mr. John Blaxland Clarabut, chemist and druggist, Deal. Aged 66.

CRITCHLEY.—On February 28, Mr. John Henry Critchley, chemist and druggist, Southport. Aged 44.

GIFFORD.—On February 28, Mr. Joseph Alexander Gifford, chemist and druggist, Long Sutton. Aged 67.

GRISTWOOD.—On the 9th inst., after much suffering, Mr. Samuel Gristwood, esteemed, trusted, and valued by Messrs. Francis Newbery & Sons for 40 years.

HENRY. — On February 25, Mr. James Hay Henry, pharmaceutical chemist, Macduff. Age 133.

Hollis.—On February 15, Mr. William Hollis, chemist and druggist, Sheffield. Aged 50.

Hughes.—On February 12, Mr. Edward Hughes, pharmaceutical chemist, Altrincham. Aged 72.

JOHNSON.—On March 2, Mr. Christopher Barnabas Johnson, chemist and druggist, Hawes. Aged 64.

JONES.—On February 4, Mr. William Jones, chemist and druggist, Llanfyllin. Aged 65.

LEECH.—On March 8, in the 55th year of his age, James Samuel Leech (Jim), for 39 years the faithful and trusted servant of Barclay & Sons, 95 Farringdon Street.

LEITH.—On February 8, Mr. James M. Grant Leith, pharmaceutical chemist, Edinburgh. Aged 59.

Loggin, chemist and druggist, Stratford-on-Avon. Aged 69. Mr. Loggin had carried on business for many years in the High Street, but retired a few years ago in favour of his son. He actively participated in the business of the borough. He occupied the Mayor's chair in 1866 and 1867, and was an alderman at the time of his death besides filling several other public positions. His funeral was attended by the Mayor and a large number of the Council and other representatives of public bodies in the borough. In his private life the deceased was of a cordial and genial temperament, with an entertaining fund of quiet wit, his society being at all times appreciated and enjoyed.

NUTTALL.—On February 20, Mr. Robert Nuttall, chemist and druggist, Heywood. Aged 61.

STEELE.—At 97 Union Street, Plymouth, March 10, Samuel Steele, chemist, after a long and painful illness; much respected.

THOMPSON.—On February 22, Mr. John Hartley Thompson, pharmaceutical chemist, Knaresborough. Aged 28.

TUFF.—On February 25, at Enfield Town, Middlesex, Sophia Tuff, relict of the late John Tuff, pharmaceutical chemist. Aged 84. Mrs. Tuff, says a local journal, "will be greatly missed by many, particularly by those whom she was in the constant habit of assisting in a really too free and unostentatious manner. She gave, not of her bounty, but of her limited means." Her husband, who died in 1871, had carried on the business since 1821.

Trade Notes.

Mr. DAVID MCGREGOR has retired from the firm of Bastin, McGregor & Co., wholesale and export druggists, Manchester, and the business will in future be carried on under the style of "Bastin & Co."

* *

Mr. John L. Slack, pharmacist, 144 Stockport Road, Manchester, has entered into partnership with Mr. S. H. Cox, and they are now the proprietors of "The Eau de Seltz Company," 63 Grosvenor Street, Chorlton-on-Medlock. They have also purchased the mineral-water business of Messrs. Bratby & Hinchliffe, Pott Street, Ancoats, Manchester, the latter firm devoting their whole energy to their increasing trade in machinery and essences, &c. Mr. Slack continues to carry on his pharmaceutical business at Stockport Road.

* *

Mr. George H. Gauge has succeeded to the old-established business (of which he has been manager) lately carried on by Mrs. Tuff, widow of John Tuff, pharmaceutical chemist, of Enfield Town, Middlesex.

* *

Messrs. Newdery & Sons' "Old Englyssche Cherrye Tooth-paste" is a large-sized pot containing a pleasant dentifrice, and bearing on the cover a very attractive design representing a bit of Old London from the Health Exhibition, into which is interwoven the date of the cstablishment of their firm. The circular sealed round the pot is a clever imitation of "Old Englyssche" style.

WE have received from the London agents of Issn. Cocking & Co., of Yokohama, a sample of a new Japan il of peppermint prepared by that firm, the feature of the duction being that it has been twice rectified by steam Toil is quite white, and makes a clear solution in spt wine. The aroma is very fine, while no degree of it but gency seems to be lost.

A COMPANY has been formed called "The Belfas an London Aërated-water Company (Limited)," propositionary on the manufacture of aërated waters "on the Ifaprinciple" in London. Authorised capital, 50,000%. In shares, but it is only proposed to raise 10,000% at plen Mr. James Leslie, late of Belfast, is managing ditto Premises have been taken at Bankside, Southwark.

* *

MESSRS. THOMAS SYMINGTON & Co., of Edinburgh an now putting up their various essences of coffee in he larger bottles than heretofore, retaining, however, in errespect the fine quality which has made their article polar. Their pure essence of coffee is put up in 8-oz. bottles, min thirty cups, for 1s.; essence of coffee and chicory, in lost bottles, for 1s.; and essence of dandelion coffee, in or bottles, for 1s.

WHITING'S DECORATIVE INDELIBLE ETCHING-EDecorative art applied to household articles may be to be extent utilised by the chemist to increase his profits. In example is just now before us. In America Fre A.

example is just now before us. In America Fre A Whiting, of Wellesley Hills, Mass., has made a special of materials for etching on linen, for doyleys, handkerelfs and so on, and provides indelible inks in six colours, design alphabets, and linens. Some of the inks are also use a ordinary marking-inks. The London agent for these is is Mr. E. J. Billing, 5 Catherine Street, Strand.

Foreign and Colonial.

THE decoration of the Legion of Honour has lately conferred by the President of the French Republic Dr. Walter Douglas Hogg, a son of Mr. Hogg, the Engchemist, of the Rue Castiglione, Paris.

FRESENIUS' LABORATORY.—The laboratory of Dr. senius, at Wiesbaden, during the recent winter session's been attended by 89 students, of whom 67 were Germ's 7 English, 5 Austrian, 3 American, 2 French, 2 Russ., 1 Swiss, 1 Luxemburg, and 1 Swede.

Mr. G. Bailey, of Invercargill, N.Z., has fitted up a mand handsome pharmacy, a novel feature of which is that cabinet-work consists chiefly of the red pine from the liward Bush.—Messrs. Macalister & Co. have purchased drug business in Invercargill previously carried on Mr. J. D. Hayes.

BATH SOAP-PADS.—One of the great drapery house! Paris is selling at 4d. each little linen bags for baddescribed as "Bain savonneux à l'extrait de son," a sort oatmeal soap bath. The bag contains altogether abt half a pound of a perfumed mixture of bran, meal, d powdered soap. On wetting and pressing a good lathes produced, as well as a soft pad for rubbing the body.

The Death of Mr. Carl Merck, of Darmstadt, in sixty-second year of his age, on the 1st of this month reported. The deceased was for many years the mercan manager of the famous chemical factory at Darmston of the factory at Darmston of Darms

ASSFURT BROMINE AND POTASH WORKS.—The demand fo bromine has of late been so extensive that orders had to stand over. The price agreed upon by th joint Stassfurt bromine makers for the present year vals from 2m. 60p. to 2m. 80p. per kilo., i.e., about 1s. 3d. to 4d. per lb. The price during last year was 2m. 50p. petilo. The total production was 270,000 kilos.—Chem.

RUGGISTS AND DOCTORS IN INDIA.-According to an at vsis of the census taken in 1881, there were in all India at time, among male British-born subjects, 321 "surgus and physicians," 30 "apothecaries, hospital and mical assistants, and students; "two "unqualified practiturs," and 30 "chemists and druggists." Among the re population, in the inclusive class of "physicians, su sons, and druggists," there were 123,579 males and 75,239

CIDENT WITH LYCOPODIUM .- An account is given in hourn. de Pharm. d'Als.-Lorr. of a curious accident in a st burg pharmacy. The apprentice was transferring some rodium from one bottle to another, when some of the resulting suddenly took fire at a gas-jet near by, with a if t explosion. This startled the youth, who dropped the be e on the floor; a thick cloud of lycopodium dust arose, ar itself took fire with a violent explosion, which shattered h vindows and broke a good many bottles. The apprentice esped with a few slight burns.

TICLES of incorporation have been filed at Albany, vie Seabury & Benson Corporation, the incorporators being ge J. Seabury, Russell F. Benson, M.D., and John L. n. The capital of the company is fixed at \$250,000, in ts objects are stated to be the manufacture of pharmacal specialties. Just what class of goods it intends to ruce we are not informed, but the reputation which Mr. eury has established, as head of the house of Seabury & o son, for enterprise, originality, and business sagacity, is n surance that the new concern will not be long unheard f, id that whatever it does will be done in the best possible neier. It is stated that a large factory is to built in one e Hudson River towns, and that the operations will begin on as spring opens. - Weekly Drug News.

E SANTONINE INDUSTRY OF TURKESTAN.—The Journal f e Society of Chemical Industry, issued on March 12, ups from a paper by C. O. Cech, of Moscow, in Dingler's ocehnic Journal, some further particulars concerning interprise. The manufacture was carried on up to the rent by three works in Germany and one in England, In obtained their raw material at a considerable expense of arriage from Turkestan. Since 100 kg. of worm seed ie about 2 kg. of santonine, the new works, situated at the where the raw product is found, will work under the ne favourable conditions. As a matter of fact, two German we's have already resolved upon discontinuing the manufacof that commodity. The new works will cost 65,0001., are large enough to work up 1,600 tons worm-seed -i.e., to ake 32,000 kg. santonine. The residues of the manufacformed into bricks, will be used as fuel for boilers and

IE GREEK GOVERNMENT AND THE QUININE TRADE .-T frequency of intermittent fever in Greece led to a proplon the part of the Greek Government to take the mer in their own hands, and they have submitted to the Piament a Bill to the following effect:—1. The Govern-t thall be entitled to purchase quinine sulphate of the b quality from foreign manufactories, and to retail the sec, at cost price, to anyone requiring it. 2. The retail pie, which would vary according to the market-price of the alle and the cost of carriage and retailing, would be fixed by three months, and the result published in the Official 6 tte. 3. The easts involved to be borne by the Home M stry, and the money received to go into the Government E. lequer. 4. The purchase and distribution to be effected by he military authorities. It is stated that the Greek colds in Germany, France, Austria, and Italy are requested ocure samples of quinine manufactured in those countri and that these are to be submitted to a Commission of ph cians and chemists. The pharmacists in Athens, as is ua al, are not in favour of the Bill, and have petitioned ag: st it.

Suggestions.

Messrs. Barnett & Foster advocate the aëration of British wines as a new variety of beverage.

PAPER and leather may be rendered very pliable by soaking in a solution of 1 part of acetate of sodium or potassium in 4 to 10 parts of water, and drying.—Polyt. Notizbl., from Am. J. Ph.

A DRAWING or writing on white paper with chloride of platinum is invisible. But if such drawing is held over a plate containing mercury the lines traced come out in dark tints, giving a very pleasing effect in consequence of the soft tone produced.

PACKING ACIDS.—It has been found that nitric and other dangerous acids travel better when packed in crushed pumicestone than in any other way. This, we are informed, is the experience acquired by numerous shipments to Australia.

BISULPHIDE OF CARBON, according to M. Pasteur, will become the most efficacious of all antiseptics, as it is also the cheapest, costing but a fraction of 1d. per lb. in large quan-It is also the best insecticide known, and for this purpose may, perhaps, be useful to preserve woodwork in tropical countries. At present over 8,000,000 lbs. of the substance are used annually to check the ravages of the phylloxera. It is eapable of purification till all offensive odour is removed.

THOSE who use internal-stoppered bottles may be interested to know that when the rubber rings used for patent stoppers become so hard as to be useless, their elasticity may be restored by leaving them for half an hour in two parts of water of ammonia and one of water.—Min. Water Trade Review.

QUILLAYA, or soap bark, in powder form, is sold in America in boxes as a pharmaceutical novelty to replace the use of benzine for eleaning fabrics, laces, removing grease

A REMEDY FOR STREET NOISE.—M. D. tells the Lancet that he can make himself quite deaf to the barking of dogs and all street noises by placing a little rather stiff spermaceti ointment about the size of a pea in a little square of thin limp eotton, and pressing such little bags gently in the ears.

REMOVING IODOFORM FROM MORTARS.— Mr. Slodki, Nancy (Un. Pharm.), first washes his mortar, and employs sawdust if greasy; then to remove the odour of iodoform he pours in a little alcohol, lights it, and stirs it round with the pestle. This removes all trace of the iodoform.

DEXTRINE PASTE.—Dextrine dissolved in hot water is frequently used as a gum or paste for labels. Should the solution become too thick for use in consequence of evaporation, it can only be diluted by again heating to the boiling-point with the required quantity of water, or, more simply, by adding boiling water. Singularly enough, cold water precipitates dextrine even from an aqueous solution, and cannot therefore be employed for the purpose of dilution.

CURD-SOAP SUPPOSITORIES.—Should suppositories having curd soap as the basis be required, the operator must be careful not to use a brass mould in their preparation, otherwise they will certainly be discoloured and quite unpresentable. This is due to the fact that there is always in commercial curd soap a considerable percentage of free alkali, which gives rise to the formation of metallic oxides with the con-

sequent discoloration of the suppositories.

FILTRATION OF TURBID LIQUIDS.—Liquids difficult of clear filtration may, according to Pape (Arch. der Pharm.), be readily and cheaply filtered by beating into pap about half the quantity of the paper which would usually be required for filtering, and running this into the filtering-funnels, the stems of which have been previously fitted with small plugs of cotton-wool free from fatty matters.

PUMICE-SOAP FOR PITYRIASIS.—None of the remedies suggested for this disease are so effective in removing the microspores as alkaline pumice-soap. The ordinary pumice-soaps met with in the market are, however, too hard. A good soap for the purpose may, according to Repert. de Pharm., be made by triturating together 100 parts of black soap with 50 parts of pumice-stone, and adding a small quantity of some fragrant essential oil.

Miscellaneous.

A SPANIARD, after gazing at the façade of London University, pointed to the statue of Harvey and remarked to a friend, "Just like you practical Englishmen, to erect a statue to a man because he invented a sauce."

THE DRUG CLERK'S WOOING.

By H. C. Dodge.

"To nitre chamomile," low sighed The drug clerk to Miss Laura, "To ether win you for my hride Or hair-dye in my gore, oh!"

The belladonna silken dress

And gore she knew was sloppy;
"Oh, if you camphor that I guess,"
She cried, "do ask my poppy."

"Thou hartshorn near, and yet so far," Groaned the young manna, paling, "Good bye! I'm morphine seurch of p1, Though licorice is falling,"

"You must gum gedda kiss," she cried,
And put her arms around him.
"I opium not bold," she sighed,
"Now go to pa and sound him."

"I will, and ask cologne," he said, "And if clixir lover

You'll potash shrond upon the dead Young man you will discover."

She castor oil black eyes on his—
"I will! myrrh love—I swear it;
If disap-ointment ends this biz
I'm madder-nough to wear it."

"Cummin and citrate down," pa cried,
Unto the youth enamoured.
"May I take chloroform my bride?"
The young man meekly stammered.

"Take Laura? Think her Paris green
Because he took her mother?
No! sonny, Take a pill serene—
I'll give the girl another."

- Detroit Free Press. .

[SEQUEL.]

Though strychnine his tender mind, Said he, "Mistnra, look you, To sarsapar. I'm not inclined, Nor will I now re-hachu.

"But don't think I'll cinchona chair, Though I shellac your favour, This senna G. shall do and dare, If misce does not waver.

"Anise ung. creta ferri fair,
For many years I've sought her,
Ol. Palmæ hates, but I don't care,
I'll caryoph. his daughter."

PATENT SAFETY SAMPLE-BOXES.

The Patent Safety Sample and Pareels Post Box Company manufacture ingenious boxes fastened by a screw. The box is stamped out of one piece of tin; the lid is of hard wood. Instead of the lid screwing into or over the box, a small wood screw projects from the bottom of the tin, and screws into the very centre of the lid. There is no large screwthread to get worn or jammed; the lid is easily removed and replaced, and the box is strong enough to bear the roughest usage it is likely to meet in the post. For the sample post they are specially adapted, as they are easily opened and are yet secure, without need of any string, wax, or other encumbrance.



[The following I'st has been compiled expressly for The Chemistry Druggist by G. F. Redfern, Patent Agent, 4 Sonth Street, Fhar Loudon, and at Paris and Brussels.]

Abdominal Belt.—2,305.—February 19, 1885.—A. M. Clark.—A munication from M. Maintenay. An improved abdominal of belt or band for wear.

Administering Injections. -2,499.—February 24, 1885.—J. C. burn.—A communication from M. Lowys. An apparatal administering injections.

Aerated Beverage. -2,402. -February 21, 1885. -J. R. Sharp improved acrated beverage, to be hereafter known as "social and the method of preparing the same.

Aerated Liquids. -2,565. February 25, 1885. -A. W. L. Redicommunication from H. Robertson. Improvements in appropriate the manufacture of aërated liquids.

Artificial-lighting Apparatus.—2,704.—February 28, 1886.—W Gonld. Improvements in artificial-lighting apparatus in dental operations.

Asthma, &c. (Remedy for).—2,465—February 24, 1885.—J. Gire Remedy for asthma and other affections of the throat, ches lungs.

Bandage-winder.-2,613.-T. Groves. An improved handage-vin for surgical and other similar purposes.

Bichromate of Soda.-1,723.—February 7, 1885.—W. H. Higgin, provements in the manufacture of hichromate of soda.

Black Pigment.—2,754.—March 2, 1885.—J. W. Davies. Carbon converting the refuse from prussiate of potash, alum, and chemicals into black pigment, applicable for paint, japan, ling, harness composition, indiarubber goods, engine-pacifiters, and other purposes.

Blue Colouring matter, &c.—1,553—February 4, 1885.—H. E. ton.—A communication from R. Möhlau. An improved p for the production of chlorinated dimethylparaphenylenedia and the conversion of the same into blue colonring-matter taining sulphur.

Bottle Box and Drainer.—2,336.—February 20, 1885.—W. Shep A safety hottle box and drainer.

Bottle-opener.—1,758.—February 9, 1885.—E. Cornelis.——2. February 19, 1885.—H. Codd. Improvements in apparatu opening bottles used for containing acrated liquids, and whic fitted with internal stoppers.

Bottle-tools.—2,401.—February 21, 1885.—H. Codd. Improvement tools for moulding screw-threads and other forms on the exof the heads of glass bottles.

Bottles.—1,495.—February 3, 1885.—W. G. Moll. Improvements relating to bottles for beer or other liquids.——1927.—Februa 1885.—J. Hall. Improvements in bottles having int stoppers.

Bottles (Filling and Closing).—2,459.—Fehrnary 23, 1885.
Phillips. Improvements in machinery for filling and closed bottles and similar receptacles.

Bottles or Stoppers.—1,466.—February 3, 1885.—R. Mayall, ju Improvements in or relating to bottles or stoppers applicabl bottling beer and other non-aërated liquids.

Bottles, Stoping.—1,825.—February 10, 1885.—E. Denning.——1³
— February 12, 1885.—E. Woodham and P. Ockenden.——20.
February 13, 1885.—S. Skerritt.——2,013.—February 13, 188
A. H. and J. Guy.——2,192.—February 17, 1835.—F. C. Rob.
—2,269.—February 19, 1885.—F. A. Bird and J. B. Fenby.
2 301.—February 19, 1885.—H. Codd.——2,485.—February 24, 1³
R. Taylor and J. Scott.——2,768.—March 2, 1885.—F. Walton.

Bottling Liquids.—1.567.—February 4, 1885.—E. R. Southby and W. Ramsden. Improvements in the method of hottling beer other fermented liquids, and in apparatus therefor.

Capillary Filters.—1,489.—February 3, 1885.—J. C. Newburn.—A communication from J. A. Tupper. Improvements in capillary

Carbonic Acid Gas.—2,645.—February 26, 1885.—J. O. Spong.
proved means and apparatus connected with the production carbonic acid gas for extinguishing fire.

Caustic Baryta.—1,974.—February 12, 1885.—J. H. Johnson.—A c munication from H. Kessler. Improvements in the manufact of canstic baryta.

Caustle Soda.—2,478.—W. Weldon.—A communication from A Pechiney et Compagnie. Improvements in obtaining solid cavisoda from fused caustic soda.

- tic Strontia.—2,761.—March 2, 1885.—W. Weldon. Improvements in the manufacture of eaustic strontia.
- cl ical Measures, &c.-2,347.—February 20, 1885.—J. J. Hicks.— Improvements in graduated chemical, medical, and other liquid measures or gauges of capacity and pressure, and in other graduated tubes, bottles, jars, syringes, and articles made of glass.
- ci uring-matters.—1,643.—February 6, 1885.—J. Levinstein. Improvements in the manufacture of colouring-matters suitable for dyeing and printing.——2,206.—February 17, 1885.—H. J. Haddan.—A communication from E. Frank and the Farbenfabriken vorm Friedr. Bayer & Co. process or processes for the production of soluble combinations of certain azo compounds with bisulphites, and for utilising the same in dyeing and printing.
- cainers for Charging or Discharging Fluid.—2,736.—February 28, 1885.—W. A. Barlow.—A communication from E. Grube and T. Lehmkuhl. Improved apparatus and containers for charging or filling and discharging fluid and semi-fluid matter.
- C.: drawer. -1,818.—February 10, 1885.—J. H. Smiles. Improvements in machinery for drawing corks.
- C(ing Bottles, &c.-2,089.—February 14, 1835.—W. A. M. Brown, and A. M. Porter. Improvements in means or apparatus for corking bottles and facilitating the uncorking of the same.
- Perronation of Carbonate of Barium, &c. 1,982. February 12, 1885.—W. I. Wise.—A communication from R. A. Radot. Improvements in apparatus for the decarbonation of carbonate of barium and carbonate of strontium.
- D ifectants.—1,748.—February 9, 1885.—A. J. Shilton. A new disinfectant.——2,739.—February 28, 1885.—J. C. Stevenson. Improvements in disinfectants.
- Dilling Ammonia. -2,578. H. Simon. A communication from the Berlin Anhaltische Maschinenbau-Actien Gesellschaft. Improvements in apparatus for the distillation of ammonia from aumonia-cal liquors, and for the treatment of the resulting ammoniaeal vapours.
- Dilling Sea-water.—2,173.—February 17, 1885.—T. Kay. A method of and apparatus for making sea-water drinkable.
- Dik for Animals. -1,966. February 12, 1885. W. Dibbins. An improved compound or liquid drink for cattle and other animals.
- acting Potash.—2,283.—February 19, 1885.—G. A. Jarvis. Extracting potash from felspar or felstone rocks.
- Fing and Syruping Apparatus.—1,761.—February 9, 1885.—H. M. Thomas. Apparatus for filling and syruping or filling or syruping aërated-water and other bottles.——1,822.—February 10, 1885.—J. McEwen. Improvements in apparatus for filling and syruping aërated beverages.
- F9rs.—1,471.—February 3, 1885.—W. Begg. An improved filter.—
 1,510.—February 3, 1885.—F. R. Lipseombe. Improvements in filters.——1,565.—February 4, 1885.—A. M. Clark.—A communication from D. Biggs. An improved filter.——1,762.—February 9, 1885.—W. C. Diekenson and E. Harrison. Improvements in self-cleansing low-pressure filters for the purification of water.—
 2,250.—February 18, 1885.—F. R. Lipseombe. Improvements in portable filters.——2,655.—February 26, 1885.—A. M. Clark.—A communication from J. Mallie. An improved filter.——2,644.—February 26, 1885.—C. Price and H. Cleave. A water-filter.
- Fering-apparatus.—2,345.—February 20, 1885.—L. A. Groth.—A communication from C. Piefke. Improvements in apparatus and in material employed therein for filtering purposes.
- i ering Fluids.—2,352.—February 21, 1885.—J. G. Lorraiu. Improvements in the filtration and purification of fluids and in the oxidation of matters suspended or dissolved therein.
- Filtering Liquids.—2,746.—March 2, 1885.—A. J. Bell. Filtering water or other liquids.
- tering Medium.-1,717.-February 7, 1885.-J. Robey. The manufacture of a filtering-medium for water and other liquids and of lamp-black.
- migator.—1,492.—February 3, 1885.—F. Rosher. An improved fumigator.
- drochloric Acid.—2,048.—February 14, 1885.—A. McDougall. Improvements in the methods of obtaining hydrochloric acid in the manufacture of soda from sodium chloride by the ammonia process,
- gienic Lamp Oil.—1,487.—February 3, 1885.—A. Wright. An improved manufacture of hygienic lamp-oil and the like.
- Pe-protector.—2,238.—February 18, 1835.—E. Dummerc. The protection of knees from injury while kneeling from disease of the knee-joint.
- I gnesium Chloride.—1,900.—Februry 11, 1885.—E. K. Muspratt and G. Eschellmann. Improvements in the manufacture of magnesium chloride.

- Medicinal Preparations.—1,654.—February 6, 1885.—J. Voller. An improved medicinal compound.—1,610.—February 5, 1885.—A. J. Boult.—A communication from V. Vankeerberghen. An improved medicinal preparation and method of manufacturing the same.—2,706.—February 28, 1885.—C. Werner. Improvements in medicinal compounds.
- Mixing Ingredients.—2,770.—March 2, 1885.—G. Lösekann. A new proceeding in mixing ingredients for colours.
- Nitrate of Ammonia.—1,868.—February 10, 1885. W. R. Lake. A communication from R. S. Penniman. The protection of nitrate of ammonia against deliquescope.
- Paint, &c.-1,604.—February 5, 1885.—T. J. Pearce and M. W. Beardsley. Improvements in rendering substances impermeable to air and liquids, in imparting to wood, &c., waterproof and weatherproof qualities, and the property of resisting acids and alkalies, &c.; and in the production of a compound suitable for use as a paint and a protective and preservative coating.
- P.11-boxes. -2,590.—February 25, 1885.—A. W. Watson. Improvements in pill-boxes.
- Phosphoric Acid.—2,762.—March 2, 1885.—W. Weldon. A communication from E. Lombard. Improvements in and relating to the utilisation of the phosphoric acid of the slag of the basic steel process.
- Plastic Compounds.—2,742.—February 28, 1885.—R. E. Goolden. The wanufacture of improved plastic compounds.
- Porte Pessary.—1,786.—February 9, 1885.—F. R. Child. An improved appliauee for prolapsus nteri to be known as "porto pessary."
- Precipitation of Solid Matter.—1,956.—February 12, 1885.—J. Huurphrys. Improvements in apparatus for the precipitation of solid matter held in suspension in liquids.
- Purifying Fat, &c.-2,100.—February 14, 1885.—H. H. Lake. A communication from J. P. A. Larson. An improved method or process of purifying fat and oil.
- Purifying Liquors, &c.-2,724. February 28, 1885.—C. D. Abel. A concumnication from La Société Nouvelle de Raffineries de Sucre de St. Louis. Process for the purification and decoloration of saccharine liquors, juices, or syrups.
- Recovering Ammonia.—1,937.—February 12, 1885.—E. W. Paruell and J. Simpson. Improvements in the recovery of ammonia in the manufacture of carbonate of soda by the ammonia process with production of sulphurctted hydrogen.
- Scalp Liquid.—1,611.—February 5, 1885.—A. J. Boult. A communication from H. Rothe. An improved liquid for application to the scalp.
- Soaps, &c.—2,210.—February 17, 1885.—C. T. Kingzett. Improvements in the production of compounds which may be nsefully employed for the destruction of insects on plants and animals, also as lubricants, also for sheep dipping, and generally as soaps or detergents for washing, cleansing, and purifying purposes.
- Suction-valve for Teeth.—2,327.—February 20, 1885.—J. O. C. Phillips. A new or improved suction-valve for artificial teeth.
- Sulphur.—2,473.—February 24, 1885.—J. W. Kynaston. Improvements in the manufacture of sulphur from sulphuretted hydrogeu.
- Syphons.-1,735.—February 7, 1885.—E. Edwards.— A communication from M. Dellvallade. Improvements in syphons.
- Syringes.—2,377.—February 21, 1885.—R. Park. Improvements in syringes for injecting the genito-urinary passages and other analogous conduits of animals.
- Teeth-cleanser.—2,726.—February 28, 1885.—J. H. Martin. A pocket teeth-cleanser.
- Transparent Enamel.—2.615.—February 26, 1885.—W. E. Hart, jun. Liquid "Crystalshine" transparent enamel.
- Treating Solutions of Sulpho-cyanides.—1,659.—February 6, 1885.—C. W. Watts and C. F. Claus. Improvements in the treatment of solutions of sulpho-cyanides in order to obtain useful products therefrom.
- White Oil.—2,331.—February 21, 1885.—M. Ayrton. Improvements in the production of white oil or grease from black oil or brown grease.

Specifications published during the month:—Postage 1d. each extra.

1884

- 4,417. W. S. Richardson and W. J. Grey. Treatment of chloride of sodium to produce bleaching-powder. 6d.
- 4,480. W. L. Wise. Mannfacture of mordants and colouring matters from glucosides, &c. 4d.
- 4.538. E. De Pass. Funnels for regulating the supply of liquids to bottles, &c. 6d.
- [4,707. J. B. Thompson. Bleaching. 2d.
- 4,811. W. J. A. Donald. Manufacture of chromates and bickromates. 4d.
- 4,850. J. H. Johnson. Preparation of heligen derivatives of term methyldiamido-benzo phenone, &c. 4d_•

4,947. S. G. Thomas. Manufacture of phosphatic salts. 2d.

5,021. F. Wirth. Manufacturing of colouring matters. 4d.

5,042. J. B. Powell. Corking-machines. 8d. 5,130. S. G. Thomas. Manufacture of chromic compounds. 2d.

5,154. J. Imray. Resin soap. 2d.

5,175. J. Brown. Disinfecting-powder. 2d.

5,260 E. Capitaine. Colour starch. 4d.

5,549. S. Plant. Corkscrews. 6d.

5,655. E. G. Colton. Stoppering bottles, &c. 6d.

5,948. W. J. A. Donald. Manufacture of chromates and bicbromates. 44.

. 5,998. J. S. Gamgee and H. S. Wellcome. Substitute for spouges, &c. 4d.

6,320. C. J. Brooksbank. Backing artificial teeth. 6d.

6.973. F. W. Renant. Preparing a ferment for use in indigo vats, &c.

6,974. F. W. Renaut. Indigo vats, &c. 4d.

7,056. Sir F. C. Kuowles. Treating sulphides and oxides of metal, &c. 24.

7,228. J. C. Pickin. Bottles and jars. 4d.

7,951. W. Tickle. Boxes for holding pars, bottles, &c. 6d.

8,056. A. Irving. Purifying water contaminated by dissolved vegetable matter. 6d.

8,148. T. Kempf. Manufacturing iodoform, bromoform, and chloroform. 2d.

8,942. J. Booth. Bottles. 44.

9,305. W. Weldon. Manufacture of chlorine. 6d.

11,037. F. W. Renaut. Indigo vats, &c. 4d.

11,611. J. R. Sharpe. Bottles for acrated liquids. 6d.

11,833. R. Garbett. Inhalation-apparatus. 6d.

12,534. J. Blocksidge. Stoppering bottles, &c. 2d.

12,542. S. Puplett. Artificial production of ice. 8d.

13,851. P. Molyneux. Sunk tanks for storing oil, &c. 6d.

14,369. F. J. Beaumout and F. S. Turner. Removing globular stoppers, &c., from bottles containing aërated liquids. 6d.

14,770. G. H. Ellis. Filtering, disinfecting, &c., medium. 2d.

14,939. J. S. Davison. Bottle-stoppers. 6d.

14,965. W. H. Thew. Preparation of beverages, &c. 2d.

14,968. F. Rutard and F. Delas. Feeding-bottles. 4d.

15,445, H. C. Sanders. Combination stopper and sprinkler for perfume bottles, &c. 4d.

15,509. J. G. Morey and L. B. Stnrges. Dental tools. 6d.

2,896. O. Wolff. Weatherproof oil colours. 2d.

3,797. J. E. Spratt. Electric belt for medical purposes. 6d.

3,948. J. H. Brierley. Body-belts. 4d.

4,195. C. S. Gorman. Manufacture and storage of biehromate of soda. 2d.

4,202. J. Foulis. Draining and consolidating semi-fluid matters. 6d.

4,415. G. W. von Nawrocki. Colouring-matters. 4d.

4,579. C. Lea Trusses. 4d.

4,846. J. Booth. Stoppering bottles. 6d.

5,038. J. H. Johnson. Preparation of purple, blue, and green colouringmatters. 6d.

5,192. J. C. Martin. Red pigments. 2d.

5,345. C. Billington and J. Newton. Producing alloys of iron or manganese, &c. 2d.

5,382. H. E. Newton. Explosive compounds. 4d.

5,383. H. E. Newton. Evaporation and concentration of liquids. 6d.

5,447. J. B. Austin. Carbolate of lime for disinfecting, &c. 24.

5,458. F. Machenhauer. Manufacture of yellow colouring-matters. 4d.

5,512. J. H. Johnson. Preparation of yellow colonring-matters. 4d.

5,520. W. A. Meadows. Manufacture of sulphate of ammonia. 4d. 5,741. J. H. Johnsou. Colonring-matters, 4d.

5,826, IF. Barrett. Stoppers for bottles containing aërated liquids. 61. 5,901. A. M. Clark. Lubricating compounds. 4d.

5,933. R. Irvine. Distillation of shale, coal, &c., to obtain solid paraffin 4d.

5,945. W. H. and H. H. Bliss. Beverages. 2d.

5,975. J. Wilson. Maunfacture of chlorate of potash. 4d.

6,001. G. Jaeger. Preparation of food, &c , for medicinal purposes. 2d.

6,051. W. V. Wilson and J. Storey. Nitro-cellulose compounds, 4d. 6,094. W. Young and G. T. Beilby. Distillation of mineral oils, &c. 1s. 2d

6,176. E. Packard. Obtaining solutions containing free phosphoric acid. 4d.

6,208. G. Weddell. Filtering, water, &c. 6d.

6,215. W. P. Thompson. Purifying sulphuric acid, &c. 4d.

6,271. E. Soustadt. Soaps, &c. 2d.

6,331. F. Wirth. Capsuling-machines. 4d.

6,367, S. G. Thomas. Manufacture of sodium. 2d.

6,401. C. Lowe. Disinfecting powders. 2d.

6,681. C. Thornhill. Substitute for suspensory bandages. 6d.

6,731. W. J. A. Donald. Manufacture of cbromates and bichromates. 2d.

6,750. E. Packard. Manufacturing super-phosphates of lime. 4d.

6,751. E. Packard. Obtaining products rich in phosphoric acid from phospbate of lime, 4d.

6,752. E. Packard. Obtaining products rich in phosphoric ac from phosphate of lime. 4d.

6,786. W. P. Thompson. Bleaching mineral oils, &c. 6d.

6,916. H. H. Lake. Hernia trusses. 6d.

6,981. A. M. Clark. Apparatus for heating mineral waters, &c. 1. 8,409. W. Young and G. T. Beilby. Distillation of mineral oils, & 100

9,460. T. Slater. Manufacture of chromium alloys. 4d.

10,298. W. S. Frost and others. Mcdical electric hair-brushes, &c. d.

12,897. F. H. Fearns. Stoppers for bottles, &c. 6d.

13,282. A. T. Smith. Filtering sewage, &c. 2d.

13,548. W. Charleson. Varnish for coating ointment-boxes, &c. 4 13,579. H. H. Lake. Recovering paraffin, &c., from petroleum (c) oil. 6d.

14,681. C. R. A. Wright. Soap. 4d.

15,456. W. E. Gedge. Preparing alizarine. 2d. 15,496. A. McDougall. Manufacture of ammoniacal salt, &c. 2d.

16,803. J. H. Galloway and J. W. Galloway. Filling and syruping and syruping beverages, &c. 4d.

17,044. W. R. Lake. Bottles with internal stoppers. 4d.

Third Editiou.

1861.

2,417. D. McCullum. Filling and closing bottles. 6d.

Second Edition.

1863.

3,131. E. Solvay. Manufacture of carbonate of soda. 8d.

1876.

5,061. C. and A. Forest. Drying and powdering blood. 6d.

1885.

39. S. R. Hooper. Euphorbia paints. 2d.

1840.

8,295. J. Cutler and T. G. Haucock. Cutting corks and constraint necks of bottles. 8d. 1877.

1,556. W. L. Wise. Preparing caustic alkalies, &c. 4d.



RECEIVING ORDERS.

SMYTH, THOMAS, Water Street, Narberth, chemist, wine and spirit chant, grocer, and provision dealer. February 21. Exam. March 2, at the Temperance Hall, Pembroke Dock. Court-Pembrokel WILSON, RICHARD HENRY, West Percy Street, North Shields, chemi druggist. February 27. Exam. March 10. Court-Newcastle.

ADJUDICATIONS.

BOULTON, JOE SEELS, 12 Deansgate, Bolton, chemist and drug February 23. Court-Bolton.

LITCHFIELD, JOHN, 50 High Street, and Uttoxeter Road, Longton, ehes druggist, and seedsman. February 25. Trustee-T. Bullock, Old Receiver, Newcastle-under-Lyme, Conrt-Stoke-on-Trent and Long TAYLOR, WILLIAM HENRY, 38 Walbrook and 186 Tulse Hill, ebemists d

druggists' agent. February 9. High Court of Justice.

WOOD, DAVID, 4 Wellington Street and 2 Dubb Lane, Bingley, chemis d druggist. February 5. Court-Bradford.

NOTICES OF COMPOSITION.

Holmes, George, 44 King Street, Huddersfield, chemist and druggistd herbalist. Composition of 10s. in cash on Match 6. Huddersfield.

PALMER, GEORGE SMITH, 3 Grand Promenade, Brixtou, chemist. Co. sition of 1s. 6d. Receiving order resciuded. High Court of Justice

PARTNERSHIPS DISSOLVED.

HOVENDEN, R., & Sons, City Road, Cowper Street, and Berners Str wholesale perfumers, warehousemen, and vendors of patent medical as regards F. Hovenden. November 27. (Robert Hovenden, Frede Hovenden, and Albert Hovenden.) Debts by R. and A. Hovenden.

SELF-OPENING TIN BOX COMPANY, Kirby Street, Hatton Garden. Dee ber 1. (George Featherstone Griffin and John Barrow.) Debts Griffin.

TRIMMELL, CHILD & Co., Debnam's Road, Rotherhithe, chemical ma facturers. March 11. (Charles Heury Trimmell and Henry Child.)

Trade Report.

increased depression. The general reduction both in our mets and exports shows that the buying power both here in broad is diminished, and there does not seem to be any in for assuming that any of the other great nations are in ref. 1885, were valued at 29,458,642*l*.; in February, 1884, 161,001*l*. The exports of home produce for those months actively were valued at 16,850,218*l*. and 18,908,377*l*., and foreign and colonial produce re-exported at 6,205,351*l*. in 1,527,346*l*.

bjoined are our usual tables of trade in special riets:—

Imports.

						Feb., 1883	Fcb., 1884	Feb., 1885
	1						, , ,	,
	-	,						
20	silve	r			lbs.	245,235	384,450	345,225
Br	1,21110	• ••	• • • • • • • • • • • • • • • • • • • •	•••	value £	18,140	25,875	30,920
	real			•••	cwt.	2 477	1,499	2,044
	- Court				value £	18,286	8,250	12,800
n.	d				cwt.	22,135	29,818	24,931
100					value £	576,389	771,411	589,694
12			**	•••		010,000	,	- 50,00
(anut	t			cwt.	15,038	19.411	4 825
	19				value £	24,578	32,738	7.249
.0	e				tuns	2,950	1,501	2.936
		••			value £	113 234	64,608	118.590
1	a				cwt.	53,337	54,585	83,020
	1				value £	87,388	102 239	119,125
I	olcu	m			galls.	4,177,007	2,781,483	4,240,154
	>>		* * *	٠	value £	126,686	100,309	128,183
6	l, of	all kin	ds		tuns	862	558	1,011
ı	19				value £	29,424	19,110	31,235
1	in, bl	ubber,	, and sp	ocrm -	tuns	500	657	1.307
		,	99		value £	21,069	18,967	28,079
	penti		• •	• •	cwt.	20,058	21,711	23,642
4	. ",		acture		value £	38,149	27,942	26,445
					pro-	140.00	110 575	*05 407
			crated	**	value £	142,021	116,735	105.423
A]	line	tar)—					/ 10.004	00.404
	arine	••	••	••	•• ,,	18,628	(19,064	20,424
6		al-tar	dwa	••	** ;;	10,028	27,338	22,073 414
	Peru			••	ewt.	8,779	3.932	5 978
Ť		IVIAIL	••	••	value £	101,658	37,935	48.225
	"		••	••	varue æ	101,000	31,900	40,220
	bic				cwt.	7,464	8,864	11.427
			• • • • • • • • • • • • • • • • • • • •	•••	value £	16,355	31,128	40,591
1	, seed	l. shell	stick.	and d	ye cwt.	11,252	10,358	4,562
1	,	-, -1101	, 002014		value £	51,454	48,977	14,612
0	's, une	enume	rated	"	** ,,	81,585	71,453	64,700
ı					•• ,,	31,000	. 1,100	01,100

Exports.

	Feb., 1883	Feb., 1884	Feb., 1885
lli	482,322	441,558	432,180
	144.914	147,221	128,060
ching materials or preparations cwt. ", value £ licines, comprising drugs and	120,300	128,093	103,921
	26,040	60,091	34,872
er chemicals ,	73.612	€5,599	64.572
	149.357	152,327	145.749
k, Peruvian cwt.	7.996	3,986	8.336
	6 1, 690	29,099	47,216
mical manufactures and pro- ucts of foreign origin ,	18,350	17,581	18,978

MINCING LANE, March 12.

will be easily understood that at the present moment, rounded as we are by disturbing elements of all kinds, siness is in a most unsettled state, as from day to day it bears more difficult to imagine what is about to happen next. The Board of Trade returns for last month are discouragin the extreme, although, on the other hand, it must be the in mind that, through wars and rumours of wars, ne branches of our home industries are already suddenly inged into a state of extreme activity, which cannot be ntinued for long without directly influencing the open trivets.

Reports that, in order to meet the increased expenditure, new or augmented duties are about to be imposed upon certain articles of colonial production, have also not been wanting, causing fits of firmness to take place here and there.

The drug sales held on March 5 and 6 went off generally with a firmer tone, cubebs, gum arabic. Cape aloes, and other articles showing improved values. Saffrons of good import are also in a much firmer position, and quinine, although at the moment low and depressed, can hardly be expected to remain so for long if, as the present outlook would seem to indicate, large standing armies are to be retained both in Asia and Africa during the ensuing summer.

ACIDS.—Citric has improved in price to $1s. 5_3^3d$. to 1s. 6d. per lb., and in doing so has attracted some fairly considerable business from consumers. At one time speculators operated largely in this article, but of late years heavy losses appeared to have quite disheartened them. Tarturie.—English steady at 1s. 8d. per lb.; but foreign is easier at 1s. 7d. to 1s. 7d. per lb. Oxalie has given way to 5d. per lb. net.

ALOES in last sales showed increased firmness, and of 176 packages Cape offered 101 found buyers at dearer rates of 36s, to 38s, per cwt. bright, and 25s, to 34s, per cwt. for inferior to medium qualities.

ALUM meets with continued demand at 5l. 17s. 6d. lump, and 6l. 5s. ground per ton.

ANTIMONY.—During the last few days, out of several inquiries, some fairly large contracts have been passed. It is asserted on good authority that the lots of crude antimony which have been recently sold at unusually low prices here had evaded payment of export from Japan. Prices have a somewhat hardening tendency. Regulus, at 39! to 40! per ton, meets with steady business.

Balsams still fail to find buyers. In last sales, 14 packages Peru bought in at 5s. 10d. to 6s., 8 cases Tolu at 1s. 8d. to 1s. 9d., and 26 packages Cupivi at 1s. 8d. per 1b.

Bark.—Not long since we remarked that it remained to be seen what effect the improved rates then being obtained for cinchona bark in the London market would have upon the producing districts, and we now have the result in the fact that, whereas previously bark arrivals here had fallen off to about 3,000 packages monthly, they have now quite recovered their former average of 5,000 to 6,000 packages per month. Notwithstanding recent large arrivals of Ceylon bark, however, only 780 packages were offered in last Tuesday's sales, and of which the bulk sold; but of 220 packages South American offered only 80 sold, prices ruling, if anything, a little easier than formerly.

BLEACHING POWDER remains at 7l. 10s. per ton ex warehouse, with very restricted business.

BORAX, at 40s. per cwt., meets with a steady consumptive trade.

BROMINE continues very scarce.

CALUMBA ROOT.—176 bags of all qualities were offered in last sales, some low selling at 24s. per cwt., and better sorts bought in at 35s. to 55s. per cwt.

CAMPHOR continues in a firm position, and refined foreign makes are especially steady. It must be borne in mind that the present prices of raw camphor—558. to 578. per cwt.—are very low, bordering very closely upon the lowest figures on record, and resulting, no doubt, from the large quantities of both China and Japan with which our markets have of late been stocked. It appears now, however, very probable that arrivals of the Chinese production will be considerably reduced, if not for a time altogether stopped, by the warfare now being carried on in the camphor district by the French, the trees being principally cultivated upon the Chinese islands. The Japanese production will of course, not be interfered with, but the supply of Chinese raw camphor once cut off the competition will be at an end, and higher rates for Japan must be expected as the natural result.

CAMPHOR OIL.—None offered in last public sales.

Cantharides.—Good Russian flies are being offered rather more freely, and about 6s. per lb. would now be accepted.

CARDAMOMS.—Of 194 packages offered in last sales half sold at easier rates. Good Ceylon Malabar sorts, 3s. 3d. to 4s. 11d. per lb.

CASSIA LIGNEA, at further reduced rates, has experienced some fairly extensive business, 1,100 boxes having recently changed hands at 26s. to 26s. 6d. per cwt.

CLOVES, after experiencing a somewhat smart demand, which at the time increased price fully $\frac{1}{2}d$, per lb. Zanzibars fell back last week to about last month's quotation, but recovered again in yesterday's sales to $6\frac{1}{8}d$. per lb. for fair bright quality. Only 160 bags offered.

COCHINEAL, notwithstanding a very limited demand, continues to be firmly held at previous rates.

COD-LIVER OIL.—The reports of this year's fishing, although somewhat conflicting, lead us to anticipate very favourable results, in which view we are supported by present features of the market. In last sales 34 casks Newfoundland straw and yellow sold without reserve at 3s. 6d. per gallon.

CREAN OF TARTAR has further given way in price to $126s.\ 6d.$ per cwt. without attracting much attention.

CUBEBS have fully confirmed our last report, and, although 49 bags were offered in last public sales, the prices at which they were bought in (13/. 10s. to 17/. per cwt.) tend only to show the firmness of holders.

ERGOT OF RYE has attracted more attention of late, and of 101 packages Spanish 57 sold at $8\frac{1}{4}d$, to $8\frac{1}{4}d$, per lb.

ESSENCE OF LEMON.—The extreme depression which has characterised this and other Sicilian articles for a considerable time past appears to be at last giving place to a revived demand, and more business has been done of late, prices ranging from 3s. 6d. to 4s. pcr lb., f.o,b. Messina.

GALLS.—About 500 bags Turkey offered in last drug sales were nearly all bought in at 52s. to 57s. 6d. per cwt.

GINGERS of all descriptions are slightly cheaper than last month. Some new crop Cochin and Jamaica now being offered.

GUM ARABIC.—All descriptions are firmly held, and with the present state of Eastern affairs lower rates are not to be expected. Good Turkey sorts rule at about 61. per cwt., and picked from 71. 10s. to 101. per cwt. Nearly 700 packages of various qualities were offcred in last sales, but only the lower East India qualities found buyers.

GLYCERINE.—Present remarkably low rates are inducing good steady business.

HONEY.—Heavy quantities of Californian are continually being offered in public sales, and stocks remain large.

IODINE.—Only small business at unchanged rates.

IPECACUANHA continues steady, the smallness of stocks causing late values to be well maintained.

ISINGLASS.—Business during the month has been limited to retail orders for good leaf and Penang tongue at steady prices. At the public sales, held the 24th ult., 543 packages East India met a very depressed demand, only 156 finding buyers, as follows:—Penang.—Of 180 packages 40 sold: leaf, good to fine, 3s. 8d. to 3s. 10d.; small medium, 3s. 4d. to 3s. 7d.; low dark and pickings, 1s. 5d. to 2s. 7d. per lb. Purse, low to good, 5d. to 1s. per lb. Tongue, small ordinary to good middling, 3s. 2d. to 3s. 6d.; low dark to good ordinary, 2s. 1d. to 2s. 10d. per lb. Saigon.—Of 191 packages 49 sold: leaf, good to fine, 3s. 3d. to 3s. 8d.; reddish and pale, 3s.; pickings, 1s. 9d. to 2s. 10d. per lb. Tongue, thin to ordinary, 10d. to 2s. 9d. per lb. Purse, low, 4d. per lb. Bombay.—Of 162 packages 67 sold: tongue, fine pale bright old, 2s. 9d.; ordinary to middling, 1s. 4d. to 1s. 10d. per lb. Pipe, low to good, 10d. to 2s. 5d. per lb. Kurrachee.—Leaf, 1s. 8d. to 2s. 6d.; bladder, 1s. 4d. to 2s.: purse, 4d. to 10d. per lb. Also 13 packages China fine circular leaf sold at 2s. 6d. to 4s. 6d. per lb. Next sales 31st inst.

LEMON-JUICE has, in sympathy with citric acid, corleably improved in value, and is now worth 207. 15s. people, b. Messina, thus confirming last month's firmnes are ported by us.

MENTHOL CRYSTALS.—Business very quiet, at 35s. t.40 per lb.

MORPHIA SALTS are in poor demand at unchanged photos. 6d. per oz.

MUSK.—Stocks of Tonquin being small, values are intained, and in last sales best of this description made per oz.

OPIUM.—Although values must be called unchardruggists' qualities have met with more inquiry during last few days.

OILS.—H. G. Hotchkiss peppermint oil is again dearen as much as 18s. 9d. per lb. is stated to have been paid 1 Although in a firm position, business done is of a restrict character. Finest Japan peppermint oil, 17s. per lb.

OTTO OF ROSES is in fairly good demand, especially fellemedium and lower qualities, and a recent slight reduction price of one or two of the most costly brands is likely to more extensive business in them also.

Petroleum Oil, through smallness of stocks, is usiderably dearer for spot, at $7\frac{3}{4}d$. to 8d. per gallon, alther forward deliveries attract but little attention, because whereas present stock is only about 60,000 barrels, agas 300,000 last year, there is plenty afloat and loading or London.

Petroleum Spirit, $7\frac{1}{4}d$. to $7\frac{3}{4}d$. per gallon.

PIMENTA continues in very restricted demand, althorhine is worth a little more, very bright quality making deper lb.

POTASH, CHLORATE, remains in a very steady position 6d. per lb.

POTASSIUM.—*Bromide*, American make, 1s. 5d. pen *Iodide*, in restricted demand, although prices remain 11 12s. per lb., according to make.

QUICKSILVER continues very quiet, official price, 67. per bottle, but obtainable at less. This being just about price at which the Californian production can be kept ou this market or rendered unprofitable to bring here, Spamay be expected to remain for some time at or about figure.

QUININE has given way slightly in value to the follow quotations. Howard's 1-oz. bottles, 4s. 6d.; French, 1 bottles, 4s. 6d.; foreign bulk, in tins, 3s. 9d. per oz. 1 reduction has probably been brought about through a tem rary slackness of demand after the considerable business a few weeks ago. It is hardly to be expected, however, t present quiet state of the market will continue very loconsidering the time of year and how many circumstanmay arise to make this valued drug needed in consideraquantities both here and abroad.

RHUBARB remains in a steady position, with She slightly dearer at 2s. 9d. to 3s. 9d. per lb., according quality.

SAFFRON continues in a very firm position, and prices ha advanced somewhat since date of our last report, and quot tions in Spain are above those ruling here. Such being t case any serious increase in demand would probably have t effect of further increasing values considerably.

SAL AMMONIAC.—A fairly extensive trade doing at t reduced prices of 38s. to 40s. per cwt.

SALTPETRE.—Firm; refined at 22s. to 23s. per cwt.

SARSAPARILLA.—Arrivals have been small lately, improving the demand. In last sales, of 40 bales Jamaica offer 19 sold at 1s. 6d. to 1s. 8d. per lb.

SODA.—Crystals have further improved to 2/. 18s. per to ex ship here, 2/. 11s. 6d. Tyne. Bicarbonate, very sma business at 7/. 15s. per ton ex warehouse. Caustic in stead

d; cream at 87. 10s. to 87. 15s., and white, 60 per cent., ton.

s.—Although business is most restricted China firmly na ains value of 1s. 6d. per gallon.

S. PHATE OF COPPER.—Quiet, at again slightly easier at 171. 5s. to 171. 10s. per ton.

JARINDS.—In consequence of improved demand and artivals West India have improved considerably in value per cwt.

THENTINE.—Prices of American spirit have slightly imuc 1; spot, 21s. 9d. to 22s.; March-April, 22s. to 22s. 3d.; la August, 22s. 9d. to 23s., and September-December 3d. d. to 24s. per cwt. Present stock 41,000 barrels.

villoes again met with good business in last sales, and 208 tins offered 143 sold at nuchanged rates, highest up y realising, as previously, 24s. 6d. per lb.

COD-LIVER OIL.

SSRS. W. GRAHAM CARR & SON, Berwick-on-Tweed, us the following note, together with a sample of the

e eason's oil, which seems very fine :-

cod-fishing on the Norwegian coast, especially in the en parts, has up to now proved exceptionally good. In the form our buyer, at present in Tromso; dated March 2, the steen number of cod taken up to the end of February ered over 7,000,000, against 2,000,000 in 1884, 3,000,000 in 18, 2,000,000 in 1882, and 6,000,000 in 1881; the latter in hen considered a good fishing, and oil was that year cheap, so there is every reason to believe, should the reference continue favourable, that cod-liver oil will this year the low figure.

cown fishing on the Scottish coast has this season been sery good, the livers of the fish being very rich. Our of boats on this part of the coast has been much larger has year, viz.. 28 trawlers, 115 deep-sea boats, and 40 ols, which have from October 1 averaged four days a week

t 1, that being exceptionally good fishing.

(FROM OUR AMERICAN CORRESPONDENT.)

NEW YORK, March 2.

No the past month the home trade has been rather dull, by caused by the unusually severe weather prevailing in and North. Some of the railways have for weeks been liked up with snow; and the carriage of the mails, and concerning the control of the staple drugs, especially those that the care advancing; and, with few or no additions to the took received, the increase of trade which is expected to a mpany a return of mild temperature will, it is thought, for ler stimulate prices.

le prices in parentheses in sterling are what the different ar les would cost delivered in London, all market allowars, discounts, &c., being taken into account. Importers of therefore, see at a glance the course of the market com-

p d with their own.

ALSAMS.—The stocks here of *Copaiba* are still large, and in the face of the total imports falling off 80 tons in 1884 pared with 1883. Prices, however, show increasing firm, Para being quoted 39c. (1s. 9d.); thick bright Maranh, 38c. (1s. 8½d.); Maracaibo, 35c. (1s. 7d.). *Canada* is in moderate request at 35c. (1s. 7d.). *Tolu.*—In the are of demand prices are easier; 34c. (1s. 6½d.) would be a pted for some lots in first hands. *Peru.*—Total stock in mporters' hands, 14 cases, held for \$1.50 (7s.).

ISCARA SAGRADA BARK.—A large demand exists, but, by g to competition, the market has dropped to 15c. (8d.) he best quality.

NCA BEANS.—The price of frosted Angostura has beined to \$1.10 in case lots, but for large parcels from first als \$1 per lb. (4s. 3\d/2.) would probably be accepted. In ground the property of the consumers preferring the Angostura now they are so cheap.

Californian Honey.—Stocks here are light, but, owing to the demand for export falling off, prices are lower. Prime white candied in cases is quoted 7½c. (37s. cwt.). In last month's report it should have been stated that the statistics of exports from San Francisco included both strained and comb.

BORAX.—This article meets with no export inquiry. It is presumed supplies go direct from California. There is a large demand in the home trade for concentrated, being much cheaper than city refined. The price is 7c. per lb. (33s. 6d. cwt.).

CAMPHOR.—Refined has advanced to 17c. $(9\frac{1}{4}d.)$, and 4-oz. blocks to 18c. $(9\frac{3}{4}d.)$; higher prices are expected soon.

COD-LIVER OIL.—There is no change to report, and no demand for export.

ESSENTIAL OILS.—The supplies of Sassafras have been gradually falling off, chiefly caused by the severc weather putting a stop to distilling, and prices are tending upwards. For prime, strictly pure oil 46c. (2s. 1d.) is easily obtained; indeed, it is stated less would not pay the producers. Wintergreen.—Large stocks have accumulated, owing to the absence of demand; the distillers were obliged to suspend operations, prices not proving remunerative; the price now asked, \$1.90 (8s. 2d.), should attract attention. Spearmint sales are making at \$6.50 (26s. 6d.), but only in a small way, owing to the high price. Pennyroyal is dearer, \$1.25 being now quoted (5s. 6d.).

BROMIDE POTASSIUM.—Makers are very firm in their views, and, owing to demand, can hardly keep pace with their orders. Several shipments have been made to Japan, and more are in hand: price, 31c. to 32c., according to maker (1s. $4\frac{1}{4}d$. to 1s. $4\frac{1}{2}d$., 5 per cent.).

CUBEBS.—There has been a kind of war raging here between rival importers of these berries, and for a time it was difficult to say what the price was, as quotations ranged all the way from 50c. to 80c. (12% to 19%); the latter figure is, however, the general price now for prime. Very old bogus berries are said to be mixed with the cheaper offering.

Roots.—During the year 1884, 590 bales of Jalap were imported, compared with 240 in 1883, the price as a rule declining all along. Supplies continue to arrive freely from Vera Cruz, and price still tends lower. Prime root is quoted 13c. $(7\frac{1}{4}d.)$. Sarsaparilla.—Mexican is in very short supply, and badly wanted; 12c. $(6\frac{3}{4}d.)$ is quoted by the wholesale houses: there is no stock in first hands. Honduras.—The stock here is represented by 180 bales of all brands; for M.C. crown 50c. $(2s. 3\frac{1}{2}d.)$ is demanded; lower grades run from 34c. to 42c. (1s. 7d. to 1s. 11d.). Senega has advanced to 48c. (2s. 2d.) for good and 52c. (2s. 5d.) for choice bright Western; this latter grade is very scarce. Serpentaria.—No quantity can be had, and of late high prices have to be paid. Pink Root.—The market here is almost bare of stocks, a large consumer having bought all up; ordinary is worth 30c. $(1s. 4\frac{1}{2}d.)$: with tops there is none.

SPERMACETI.—Owing to makers being oversold some months ahead, the price has advanced to 30c. (1s. 4d.).

OIL PEPPERMINT.—During the early part of February a large demand for home consumption set in, and the price kept rapidly rising, until holders were obliged to ask almost prohibitive prices in order to retain control of any stock. This demand was brought about by consumers here having at last opened their eyes to the condition of supplies in the producing districts, and to a cholera scare. Matters are producing districts, and to a cholera scare. quieter now, but high rates have been firmly established, and very little would send them on the move upward again. The growers in Wayne are angry with themselves for having parted with the crop at even the high rates they obtained, and will certainly not part with next season's easily. Bulk oil is now in such limited stock that holders are few, and these are determined to keep a firm grip on what is left, even if they have to carry it over to next year. Hotchkiss brand is represented by the smallest stock for over ten years; it is not in much demand for home consumption; and, as to export, the London market is cheaper. Market prices.-Tin oil, \$4.25 (17s. 9d. net, no allowances); H. G. Hotchkiss, \$4.50 per lb. (19s. 9d.).

Monthly Price Current.

The prices quoted in the following list are those actually obtained in Mincing Lane for articles sold in bulk. Our Retail Subscribers must not expect to purchase at these market prices, but they may draw from them useful conclusions respecting the prices at which articles are offered by the Wholesale Firms.

CHEMICALS.		Last Month				This Month			
, ACIDS— Acetic	per lb.	s. 0	$\frac{d}{2\frac{1}{2}}$ to	<i>s</i> .	<i>d</i> .	0	d. 2½ to	0	<i>d</i> . 0
pureglaoial	"	0	5	0	9	0	5	0	9
Benzoic Sublimate .	"	0	0	3	6	0	0	3	6
Citric Ex Gum	per oz.	0	6½ 4 ⁸ / ₄	0	0	0 1 3 4 0	$5\frac{1}{4}$	0 1 3 7 0	6
Gallic	"	1 3 4	2	0 3 7	6	3	2	3	6
- Hydrochloric Nitrie	per cwt.	4 0	6 3	7	6 3½	4	6 ···	7	6 3½
Oxalic	,,	0	6	0	0	0	5	0	0
Sulphuric	,,	0 6	03 9	9	6	0 6	03 9	0	1 6
Tannic	"	1	4	2	9	1	4	9 2 0	9
Tartaric, Euglish foreign	,,	1	$\frac{8}{7\frac{1}{2}}$	0	0	1	8	0	0 71
ANTIMONY, crude	per cwt.	22	0	0	0	22	0	0	0
ARSENIC, lump	,,	40 22	0	41 24	0	39 22	0	40 24	0
powder	"	12	6	12	9	12	6	12	9
BRIMSTONE, rough	,,	8	9	8	6.	8	9	8	6 9
flour	17	10	ŏ	12	6	10	0	12	6
GLYCERINE, German refined		50	0	52	6	47	6	50	0
crude brown	"	37	6	42	6	37	6	42	6
IODOFORM	per lb. per oz.	17 0	$\frac{0}{8\frac{1}{2}}$	0	0	17 0	$\frac{0}{8\frac{1}{2}}$	0	0
resublimed		1	0	0	0	1	0	0	0
MAGNESIA, calcined Hwds	per'lb.	0 : 5	10	1	4 0	0 : 5	10	1	4
MERCURY	per bot.	133	0	135	0	130	01	.35	0 0
PRECIPITATE, red white	per lb.	3 2	0 11	0	0	3 2	0 11	0	0
PRUSSIAN BLUE	"	1	8	2	0	1	8	2	0 0 0 0 0
SANTONINE	59	11 10	6 0	0	0	11 10	6	0	0
THYMOL	"	35	ŏ	ŏ	ŏ	35	ŏ	ŏ	ŏ
SALTS— Alum	per ton	117	6	0	0	117	6	0	0
powder	"	125	ŏ	ŏ		125	ŏ	ŏ	ŏ
Ammonia : Carbonate	per lb.	0	5	0	51	0	5	0	51
Hydrochlorate,	-				- 1				-
crude, white Sulphate	per ton	560 280	0	600 295	0	560 280	0	300 295	0
Argol, Cape	per cwt.	83	0	96	0	83 70	0	96	0
Red Oporto, rcd	99,	70 38	0	90 42	0	70 38	0	90 42	0
Bleaching powder	"	8	0	0	0	38 7	6	0	0
Borax, British refined	per lb.	40	0 6	42 0	0	40 2	0 6	42 0	0
Chloral hydrate	,,	4	5	4	0	4	5	4	0 7 0
Liebrcich's Copper:	"	5	6	6	0	5	6	6	U
Snlphate	per cwt.	17	6		0	17	6	18	0
Copperas, green Corrosive Sublimate	per ton per lb.	45	0		0	45 2	0 2	55 0	0
. Cream Tartar, French	per cwt.	127	6	0	0	126	6	0	0
Epsom Salts	"	109	0 · · 6 · ·	5	0	109	0 6	0 5	0
Giauber Salts	"	3	6	. 5	0	3	6	5	0
Magnesia : Carbouate Pond, Hwds	"	40 72	0	. 0	0	40 72	0	0	0
Morphiæ Murias	per lb.	6	0	. 0	0	5	6	0	0
Phosphorus	per 10.	2	3	. Z	4	2	3	Z	4
Bichromate	,,	0	$3\frac{1}{2}$. 0	0	0	$3\frac{1}{2}$	0	0
Carbtonate: Po ashes, Canada,									
1st sort	per cwt.	29	9	. 0	0	29	0	0	0
Pcarlashes, Canada, 1st sort	,,,	46	0	. 46	6	46	0	46	6
Chlorate	per lb.	0	6	. 0	0 10½	0		0	0 10½
Prussiate	"	1	11	. 2	0	1	11	2	0
Sulphate	per cwt.	10	6 .	. 11	6	10	6	11	6
Bromide	per lb.	1	8 .		0	1	5 0	1	8
Unioride	per cwt.	9			0	12	0	0	0
IodideQuinine:	per ro.	10		. 0	•	12	٠.,	,	٠.
Sulphate, British, in	per oz.	4	8.	. 0	0	4	6	. 0	0
Sulphate, French	per oz.	4	6.	. 0	0	4	6	. 0	0
Sulphate, Germau Sal Acetos	per lb.	4 0	1.	. 4	3 8‡	3	9	. 4	0 8 <u>1</u>
Sal Ammoniac, British	per cwt.	40		. 42	0	40		42	0
Baltpetre: B engal, 6 per cent. or	1								
under	,,	16	3.	. 16	6	16	3.	. 16	6

Coltrotuce (cont)		T 1 35 13 1	
Saltpetre:—(cont.)		Last Month	This Mc1
Beugal, over 6 per		s. d. s. d.	s. d. d.
cent	per cwt.	16 0 to 0 0	16 0 to 0
British, refined	"	16 0 to 0 0 0 22 0 23 0 7 9 8 0	22 0 0
Soda: Bicarbonate	19	7980	7 9 0
Hwds		7 9 8 0	
Carbonate:	"		45 0 0
Soda Ash	per deg.	0 13 0 0	0.12
Soda Crystals		2 103 0 0	0 13 0
	per cwt.		2 101 0
Caustic	,,	8 9 9 0	89
Hyposulphite	,,	8 0 8 6	8 0 6
Nitrate	,,	11 3 0 0	11 3 0
SUGAR OF LEAD, White Brown	,,	8 9 9 0 8 0 8 6 11 3 0 0 12 0 14 0 30 0 34 0	
SUGAR OF LEAD White		30 0 34 0	70 0
Brown	,,	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	
VERDIGRIS	per lb.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	26 6 0
Triburar row English	per 10.	$0 9\frac{1}{2} 0 11$	0 9½ ti 2 3 0
VERMILION, English	99	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	2 3 0
China	>>	2 4 0 0	2 4 0
DRUGS.			
ALOES, Hepatic	per cwt.	60 0 80 0	60 0 80
Socotrine	"	60 0150 0	60 0 . 10
Cape, good		33 0 36 0	36 0 10
Inferior	"	60 0150 0 33 0 36 0 25 0 32 0	27 0 10
Barbados	"	33 0 36 0 25 0 32 0 40 0120 0	40 0120
Cureann	"	25 0 20 0	40 0120
Curaçoa	,,	25 0 55 0 60 0 80 0	25 0 50
AMBERGRIS, grey	per oz.	60 0 80 0	60 0 80
BALSAM-			
Canada	per lb.	1 10 2 0	1 10 0
Capivi	,,	1 7 1 8	1 7 8
Pern	"	6670	5 10 0
Tolu	_	1 10 0 0	1 9 0
BARKS-	"		
Canella alba	per cwt.	25 0 27 6	25 0 28
	_		
	"	40 0 45 0	40 0 40
CINCHONA—	may 12	00 10	0.0
Peru, grey	per lb.	0 9 1 8	0 9 3
Calisaya, flat	"	0 6 2 0	0 6 3
quill	"	0 10 3 0	0 9 3
Carthagena	"	0 4 1 3	0 6
Columbian	"	0 6 1 9	0 6 5
Cuprea		0 3 1 4	0.3.5
New Granada	"	0 6 1 9 0 3 1 4 0 7 2 0 0 4 1 5 1 6 7 0	0 6 1
Pitayo & Maracaibo	"	0720	0 7 9
	"	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 6
Red	59	16 70	1 6
East India, crown	"	0 6 2 0	0 6 11
,,_ red	19	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 4 1
BUCHU LEAVES	19	0 2 1 0	0 2))
CAMPHOR, China	per cwt.	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 2 3
Japan	,,	53 0 54 0	58 0 (
Refin. Eng	per lb.	0 101 0 0	0 101 (
Tablets	"	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	0 11 (
CANTHARIDES, China		2 6 3 0	2 6 3
Durgion	**	2 6 3 0 6 6 7 0	2 6 3 6 0 £
CAMOMILE FLOWERS	per cwt.	40 0 42 0	40 0 45
			40 0 42 26 0 38
Castoreum	per lb.		26 0 38
		26 0 38 0	0 7 0
CHIRETTA		1 0 3 0 0	0 3 0
CHIRETTA	per cwt.	0 3 0 0	70 0240
CHIRETTA DRAGON'S BLOOD, lp. ERGOT OF RYE		0 3 0 0	70 0240
CHIRETTA DRAGON'S BLOOD, lp. ERGOT OF RYE	per cwt.	0 3 0 0	70 0240
CHIRETTA DRAGON'S BLOOD, lp ERGOT OF RYE FRUITS & SEEDS (see	per cwt.	0 3 0 0 70 0240 0 0 6½ 0 10	70 0240
CHIRETTA DRAGON'S BLOOD, lp ERGOT OF RYE FRUITS & SEEDS (see also Seeds and Spices)	per cwt. per lb.	0 3 0 0 70 0240 0 0 6½ 0 10	0 3 () 70 024(0 6½ ()
CHIRETTA DRAGON'S BLOOD, lp. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star	per cwt. per lb.	0 3 0 0 70 0240 0 0 6½ 0 10	0 3 0 70 0240 0 6½ 0
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian	per cwt. per lb.	0 3 0 0 70 0240 0 0 6½ 0 10	0 3 0 70 0240 0 6½ 0
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin	per cwt. per lb.	0 3 0 0 70 0240 0 0 6½ 0 10	0 3 (170 0 240 0 6½ (195 0 100)
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin Cardamoms, Malabar,	per cwt. per cwt. per lb.	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good	per cwt. per lb.	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior	per cwt. per cwt. per lb.	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy.	per cwt. per lb. per lb.	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras	per cwt. per lb. per cwt. per lb. ""	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion	per cwt. per lb. per cwt. per lb. """"	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts.	per cwt. per lb. per cwt. per lb. """ """ """ """	95 0100 0 20 030 0 3 05 0	95 0100 20 0 30 3 0 6
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion	per cwt. per lb. per cwt. per lb. """ """ per cwt.	0 3 0 0 70 0240 0 0 6½ 0 10 95 0100 0 20 0 30 0 3 0 5 0 5 0 6 6 3 0 4 0 3 0 4 0 3 0 4 0 3 0 4 0 3 0 2 10 3 6 6 0 1 0 3 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 . 6 5 0 . 6 3 0 . 4 3 0 . 4 3 0 . 4 3 0 . 2 3 6 . 6 1 0 . 3
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts Cocculns Iudicus	per cwt. per lb. per cwt. per lb. "" "" "" per cwt. per lb.	0 3 0 0 70 0 240 0 0 6½ 0 10 0 95 0 30 0 3 0 5 0 0 6 6 3 0 4 6 1 6 3 6 2 0 2 10 3 6 6 0 0 11 0 13 0 0 1 1 3	95 0 .100° 20 0 .33° 3 0 \$1 5 0 \$2 5 0 \$3 1 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$2 3 0 \$2 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple	per cwt. per lb. per cwt. per lb. "" "" "" per cwt. per lb.	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0 .100° 20 0 .33° 3 0 \$1 5 0 \$2 5 0 \$3 1 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$4 3 0 \$2 3 0 \$2 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs.	per cwt. per lb. per cwt. per lb. "" "" per cwt. per lb. per cwt. per lb. per cwt.	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0 .100° 20 0 .34° 95 0 .100° 20 0 .36° 3 0 . 4° 3 0 . 4° 3 0 . 4° 3 0 . 4° 3 0 . 2° 1 0 . 13° 2 0 0 . 2° 3 6 . 6° 11 0 . 13° 2 0 0 . 34°
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin	per cwt. per lb. per cwt. per lb. "" per cwt. per lb. per cwt.	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0100 20 034 3 0 4 1 6 3 2 0 4 3 0 4 3 0 4 1 6 3 2 0 2 3 0 4 1 0 1 2 0 0 3 3 0 4 3 0 0 3 4 0 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Junipur Berries	per cwt. per lb. per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. per cwt. ""	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0100; 20 0340 20 0330 3 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 3 0 4 1 6 3 2 0 0 3 3 0 4 1 6 3 2 0 0 3 3 0 4 3 0 0 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Junipur Berries	per cwt. per lb. per cwt. per lb. " " per cwt. per lb. " " " " " " " " " " " " " " " " " "	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0100; 20 0340 20 0330 3 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 3 0 4 1 6 3 2 0 0 3 3 0 4 1 6 3 2 0 0 3 3 0 4 3 0 0 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Junipur Berries	per cwt. per lb. per cwt. per lb. "" "" "" per cwt. per lb. per cwt. "" "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 5 0 0 6 6 6 6 6 6 6 6 6 6 6 6 6 6	95 0100; 20 0340 20 0330 3 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 3 0 4 1 6 3 2 0 0 3 3 0 4 1 6 3 2 0 0 3 3 0 4 3 0 0 5
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenngreek Juniper Berries. Nux Vomica Tamarinds, E. India	per cwt. per lb. per cwt. per lb. "" "" per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 10 0 20 030 0 3 0 5 0 0 0 6 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0100; 20 0340 20 0330 3 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 1 6 3 2 0 4 3 0 4 1 6 3 2 0 0 3 3 0 4 1 6 3 2 0 0 3 3 0 4 3 0 0 5
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India W. India	per cwt. per lb. per cwt. per lb. "" "" per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large.	per cwt. per lb. per cwt. per lb. "" per cwt. per lb. per cwt. "" per cwt. "" "" "" "" per cwt.	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 1 1 0 12 2 6 10 3 0 0 12 2 0 12 2 0 0 12
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior	per cwt. per lb. per cwt. per lb. "" "" per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 1 1 0 12 2 6 10 3 0 0 12 2 0 12 2 0 0 12
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large. inferior FLOWERS—Dalmatian	per cwt. per lb. per cwt. per lb. "" per cwt. per lb. per cwt. "" per cwt. "" "" "" "" per cwt.	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 1 1 0 12 2 6 10 3 0 0 12 2 0 12 2 0 0 12
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large. inferior FLOWERS—Dalmatian	per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. "" per cwt. "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 1 1 0 12 2 6 10 3 0 0 12 2 0 12 2 0 0 12
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian Honery, Chili	per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 1 1 0 12 2 6 10 3 0 0 12 2 0 12 2 0 0 12
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts Cocculns Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevlon Malabar sorts Cocculns Indicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili	per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. "" per cwt. "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA	per cwt. per lb. per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. "" per cwt. "" per lb. "" per lb. "" per cwt.	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSNGRLASS, Brazil.	per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. per cwt. "" "" per cwt. "" per lb. ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSNGRLASS, Brazil.	per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. Undia Vanilla, large. Jamaica HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort East India Tongue sort East India	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSNGLASS, Brazil. Tongue sort. East India West India West India	per cwt. per lb. "" per cwt. per lb. per cwt. per lb. per cwt. "" per cwt. "" per lb. "" per lb. "" "" per lb. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPPECACUANHA ISINGLASS, Brazil Tongue sort East India West India Russ, leaf	per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSINGLASS, Brazil. Tongue sort. East India West India Russ, leaf Simovia	per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. per cwt. "" per lb. "" per lb. "" per lb. "" "" per lb. "" "" per lb. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSINGLASS, Brazil. Tongue sort. East India West India Russ, leaf Simovia	per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Femugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LISNGLASS, Brazil. Tongue sort. East India Russ. leaf. "Simovia JALAP, good infer, and stems	per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India W. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LSNGLASS, Brazil. Tongue sort. East India Russ, leaf , Simovia JALAP, good infer, and stems LEMON JUCE.	per cwt. per lb. """ per ewt. per lb. """ per ewt. per lb. """ per ib. "" per lb. "" per cwt. "" per deg,	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Cevion Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucastan HONEY, Chili Jamaica IPECACUANHA LISNGRASS, Brazil. Tongue sort. East India Russ, leaf "Simovia JALAP, good infer, and stems LEMON JUCCE.	per cwt. per lb. """ per cwt. per lb. """ per cwt. per lb. per cwt. "" per ib. "" per cwt. "" per ib. "" per deg. per gall.	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. Iudia Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LISNGLASS, Brazil Tongue sort. East Iudia Russ, leaf "Simovia JALAP, good infer, and stems LEMON JUICE LIME JUICE LIME JUICE LIME Spanish.	per cwt. per lb. """ per ewt. per lb. """ per ewt. per lb. """ per ib. "" per lb. "" per cwt. "" per deg,	0 3 0 0 70 0240 0 0 6½ 0 100 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 0 6 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LISNGLASS, Brazil Tongue sort. East India. West India Russ, leaf. "Simovia JALAP, good infer. and stems LEMON JUICE. LIME JUICE LIME JUICE LIQUORICE, Spanish.	per cwt. per lb. "" per cwt. per lb. "" per cwt. per lb. per cwt. "" per lb. "" per lb. "" per lb. "" per deg. per gall. per cwt.	0 3 0 0 7 0 0 240 0 0 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 5 0 5 0 0 6 6 6 3 0 4 6 6 1 6 6 6 0 0 11 0 1 3 250 0 260 0 260 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 0 26 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LISNGLASS, Brazil Tongue sort. East India. West India Russ, leaf. "Simovia JALAP, good infer. and stems LEMON JUICE. LIME JUICE LIME JUICE LIQUORICE, Spanish.	per cwt. per lb. """ per cwt. per lb. """ per cwt. per lb. per cwt. "" per ib. "" per cwt. "" per ib. "" per deg. per gall.	0 3 0 0 7 0 0 240 0 0 0 6½ 0 100 0 20 0 30 0 3 0 5 0 0 5 0 5 0 0 6 6 6 3 0 4 6 6 1 6 6 6 0 0 11 0 1 3 250 0 260 0 260 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 26 0 0 0 26 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 26 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA LISNGLASS, Brazil Tongue sort. East India. West India Russ, leaf. "Simovia JALAP, good infer. and stems LEMON JUICE. LIME JUICE LIME JUICE LIQUORICE, Spanish.	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0 240 0 0 0 6½ 0 100 0 20 0 30 0 3 0 0 30 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 4 6 6 1 6 6 3 6 6 6 0 0 11 0 0 1 3 250 0 0 280 0 0 30 0 280 0 10 0 0 1.1 2 0 0 8 6 11 0 0 8 6 11 0 0 8 0 12 0 0 8 6 0 12 0 0 20 0 0 25 0 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHIRETTA DRAGON'S BLOOD, ID. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort East India West India Russ. leaf "Simovia JALAP, good infer, and stems LEMO JUICE LIME JUICE LIME JUICE LIQUERICE, Spanish Liquorice Root MANNA, flaky, MUSK, Tonquin pod.	per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. per lb. per cwt. "" "" per cwt. "" "" per deg. per gall. per cwt. per lb. per cwt. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0 240 0 0 0 6½ 0 100 0 20 0 30 0 3 0 0 30 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 4 6 6 1 6 6 3 6 6 6 0 0 11 0 0 1 3 250 0 0 280 0 0 30 0 280 0 10 0 0 1.1 2 0 0 8 6 11 0 0 8 6 11 0 0 8 0 12 0 0 8 6 0 12 0 0 20 0 0 25 0 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Coummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort East India Russ, leaf Russ, leaf Simovia JALAP, good infer, and stems LEMON JUICE LIQUORICE, Spanish Liquorice Root MANNA, flaky. MUSK, Tonquin pod Grain	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0 240 0 0 0 6½ 0 100 0 20 0 30 0 3 0 0 30 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 3 0 0 4 6 6 1 6 6 3 6 6 6 0 0 11 0 0 1 3 250 0 0 280 0 0 30 0 280 0 10 0 0 1.1 2 0 0 8 6 11 0 0 8 6 11 0 0 8 0 12 0 0 8 6 0 12 0 0 20 0 0 25 0 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 30 0 0 0	95 0 .100° 20 0 .30° 95 0 .100° 20 0 .30° 3 0 4 3 0 2 3 6 6 11 0 12 2 0 2 3 0 12 2 0 2 2 0 2 2 0 2 2 0 2 2 0 2
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculus Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil West India Russ. leaf Tongue sort East India Russ. leaf "Simovia JALAP, good infer. and stems Lemo Jucce Liquorice Root MANNA, flaky. MUSK, Tonquin pod. Grain Yunan pod.	per cwt. per lb. per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0 240 0 0 6½ 0 10 0 0 6½ 0 10 0 0 0 6½ 0 10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort. East India. West India West India Russ, leaf , Simovia JALAP, good infer. and stems LEMON JULCE. LIQUORICE, Spanish Liquorice Root MANNA, flaky. MUSK, Tonquin pod Grain Vunan pod. OHES (see also separate list) Othes (see also separate list) Othes (see also separate list) Othes (see also separate list)	per cwt. per lb. """ per cwt. per lb. """ per cwt. per lb. per cwt. "" per lb. "" per cwt. "" per deg. per gall. per cwt. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucastan HONEY, Chili Jamaica IPECACUANHA LISNGRASS, Brazil. Tongue sort. East India Russ. leaf "Simovia JALAP, good infer, and stems LEMON JUICE LIME JUICE LIQUORICE, Spanish Liquorice Root MANNA, flaky MUSK, Tonquin pod. Grain Yunan pod. OILS (see also separate list) Almond, expressed	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHRETTA DRAGON'S BLOOD, IP. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort. East India. West India West India Russ, leaf. "Simovia JALAP, good infer, and stems LEMON JUICE LIME JUICE LIQUORICE, Spanish. Liquorice Root MANNA, flaky MUSE, Tonquin pod. Grain Yuman pod. OILS (see also separate list) Almond, expressed Castor, 1st pale.	per cwt. per lb. """ per cwt. per lb. """ per cwt. per lb. per cwt. "" per lb. "" per cwt. "" per deg. per gall. per cwt. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 7 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHIRETTA DRAGON'S BLOOD, Ip. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Indicus Colocyuth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort. East India Russ, leaf Russ, leaf Russ, leaf Russ, leaf JALAP, good infer, and stems LEMON JUICE LIQUORICE, Spanish Liquorice Root MANNA, flaky. MUSK, Tonquin pod OHS (see also separate list) Almond, expressed Castor, 1st pale second	per cwt. per lb. """ per cwt. per lb. per cwt. "" per cwt. "" "" per cwt. "" "" per lb. "" per cwt. "" per lb. "" per cwt. "" "" per cwt. "" "" "" "" "" "" "" "" "" "" "" "" ""	0 3 0 0 70 0 240 0 0 0 6½ 0 10 0 0 6½ 0 10 0 0 0 0 30 0 0 3 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3
CHRETTA DRAGON'S BLOOD, IP. ERGOT OF RYE. FRUITS & SEEDS (see also Seeds and Spices) Anise, China Star. Russian Beans, Tonquin. Cardamoms, Malabar, good inferior Aleppy Madras Ceylon Malabar sorts. Cocculns Iudicus Colocynth, apple Cubebs. Cummin Fenugreek Juniper Berries. Nux Vomica Tamarinds, E. India Vanilla, large. inferior FLOWERS—Dalmatian Caucasian HONEY, Chili Jamaica IPECACUANHA ISINGLASS, Brazil Tongue sort. East India. West India West India Russ, leaf. "Simovia JALAP, good infer, and stems LEMON JUICE LIME JUICE LIQUORICE, Spanish. Liquorice Root MANNA, flaky MUSE, Tonquin pod. Grain Yuman pod. OILS (see also separate list) Almond, expressed Castor, 1st pale.	per cwt. per lb. "" "" "" "" "" "" "" "" "" "" "" "" "	0 3 0 0 70 0 240 0 0 0 6½ 0 10 0 0 6½ 0 10 0 0 0 0 30 0 0 3 0 5 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0 3

=		1	Last Month	This Month	1		Last Month	This Month
	sential Oils:		s. d. s. d.	s. d. s. d.	Oils:—(cont.)		£ s. £ s.	£ s. £ s.
	Almond	per lb.	30 0 to 0 0 6 7 6 8	30 0 to 0 0 6 7 6 8	SEAL, yellow to tinged	per tun	24 0 to 27 0 23 10 24 0	24 0 to 27 0 23 10 24 0
	Anise-seed, star , German, &e.	,,	8 0 13 0	8 0 13 0	SPERM	39 39	55 0 56 0	58 0 60 0
	Bergamot	177	5 6 6 0	5 6 6 0	WHALE, South Sea, pale	99	32 0 35 0 23 0 25 0	32 0 35 0
	Jajeput	per bot. per lb.	3 3 0 0 7 6 11 0	3 3 0 0 7 6 11 0	yellow	"	23 0 25 0 22 0 23 0	23 0 25 0 22 0 23 0
	Jassia	,,,	3 9 4 0	3 9 4 0	brown	"	20 0 21 0	20 0 21 0
	innanion	per oz.	1 9 2 6 0 23 0 0	1 9 2 6 0 2§ 0 0	Sardine OLIVE, Seville	per ton	25 0 27 0 41 0 42 0	25 0 27 0 40 0 41 0
1	Jinnamon-leaf	"	0 13 0 2	0 11 0 2	Gioja	"	36 0 37 0	36 0 37 0
	Clove	per lb.	3 3 3 6	3 3 3 6	Levant Mogador	"	41 0 41 10 35 10 36 0	41 0 41 10 35 10 36 0
	Lavender, Exotic	"	6986	6 9 8 6	Spanish	19	41 0 42 0	40 0 40 10
	" Mitcham	,,	60 0 0 0	60 0 0 0	Sicily COCOANUT, Cochin	"	41 0 0 0 32 10 0 0	40 0 0 0
	Lemon	per oz.	4 0 5 6	01, 0 2	Ceylon	"	29 0 30 0	32 10 0 0 29 0 30 0
	Neroli	"	7 0 0 0	7000	Mauritius	"	0 0 0 0	0 0 0 0
	Nutmeg	per lb.	0 8 0 0 8 0 10 0	0 8 0 0 8 0 10 0	PALM, fineLINSEED	"	32 0 0 0 20 5 2012/6	30 10 31 0 21 0 21 5
	Otto of Roses	per oz.	15 0 34 0	15 0 32 0	RAPESEED, English, pale	"	28 0 0 0	26 0 23 5
	Patehouli	"	1 4 2 0	1 4 2 0	COTTONSEED	"	26 0 0 0 25 0 26 0	24 0 0 0 23 10 25 10
	merican	per lb.	13 0 0 0	13 0 0 0	LARD	. 11 11	41 0 43 0	41 0 43 0
	H. G. Hotchkiss)	"	17 0 0 0 27 6 30 0	18 9 0 0 30 0 32 6	TALLOW	"	28 10 45 0 s. d. s. d.	28 10 45 0 s. d. s. d.
	Inglish	19	8 0 14 0	8 0 14 0	TURPENTINE, American	per cwt.	23 0 23 3	21 9 22 0
	Japan	,,	13 0 15 6	15 0 17 0 35 0 40 0	PETROLEUM, refined Spirit	per gall.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	0 73 0 8
	Menthol crystals	19 39	2 6 3 9	2639	SEEDS.	"		
	safras	"	2600	2600	CARAWAY, English	per qr.	48 0 60 0	48 0 60 0
	yme	"	12 0 14 0 2 6 0 0	12 0 14 0 2 6 0 0	German, &c.	per cwt.	18 0 26 0	30 0 52 0
	ee, expressed	per oz.	0200	0 2 0 0	CORIANDER	,,	10 0 21 0	10 0 21 0
	O M, Turkey	per lb.	15 0 17 0 11 0 13 0	15 0 17 0 11 0 13 0	HEMP LINSEED, English	per qr.	38 0 0 0	38 0 0 0
	Q SIA (bitter wood)	per ton	60 0 80 0	60 0 80 0	Black Sea & Azof	"	40 0 0 0	40 0 0 0
1	R BARB, China, good	per lb.	1630	1630	Calcutta Bombay	"	42 6 0 0 45 0 0 0	42 6 0 0 45 0 0 0
	Middling to fair	pc1 10.	1 6 3 0	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	St. Petersburg	"	35 038 0	<i>3</i> 5 0 38 0
	R TS_Calumba	per cwt.	22 0 30 0	22 0 30 0	MUSTARD, brown white	per bush.	$\left[\begin{array}{cccccccccccccccccccccccccccccccccccc$	10 0 15 0 7 6 9 6
2	ina	per cwu.	20 0 0 0	20 0 0 0	Poppy, East India	per qr.	₹9 0 0 0	39 0 0 0
	s-Cuslangal	,,	30 0 21 0 21 6 0 0	30 0 21 0 21 6 0 0	SPICES.			
	ntian	"	22 6 25 0	22 6 25 0	Cassia Lignea	per cwt.	27 0 0 0	26 0 26 6
	ris	19	23 0 50 0	23 0 50 0 68 0 80 0	Vera Buds	"	18 0 23 0 34 0 0 0	18 0 23 0 34 0 0 0
	llitory	per'lb.	1600	1600	CINNAMON, Ceylon:	"		
	atany	. ,,	0506	0 5 0 6	1st quality 2nd ditto	per lb.	0 9 2 1	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	neka	"	1 6 0 0	1600	3rd ditto	11	0 5 1 2	0 5 1 2
8	Rox, Valencia	",	25 0 32 0	26 0 35 0 20 0 25 0	Tellicherry	"	0000	0 0 0 0
8	icante	"	20 0 23 0 0 6 1 0	0 6 1 0	Chips CLOVES, Penang	"	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	hayaquil	"	1 2 1 5	1 2 1 5	Amboyna	",	$0 8 0 9\frac{1}{2}$	0 8 0 91
	maiea	**	1 0 1 3	1 0 1 3	Zanzibar GINGER, Jam., fine	per cwt.	0 54 0 58 80 0 0 0	0 6 0 6k 75 0 0 0
2	AFRAS	per cwt.	0000	0 0 0 0	Ord. to good	,,	50 0 70 0	45 0 65 0
2	amony, Virgin	per lb.	32 0 35 0 15 0 28 0	32 0 35 0 15 0 28 0	African Bengal	"	40 0 0 0 30 0 35 0	40 0 0 0 30 0 35 0
8	va, Bombay	19	0 21 0 0	0 21 0 0	Malabar	"	0 0 0 0	0 0 0 0
	nnivelly	"	0 3 1 2 0 9 1 6	0 3 1 2	PEPPER, Black, Malabar	per lb.	40 0 90 0 0 87 0 88	35 0 87 6 0 8\frac{3}{2} 0 8\frac{3}{6}
5	RMACETI, refined	17	1 3 0 0	1 3 0 0	Singapore	,,	0800	$0 7\frac{1}{2} 0 8$
9	merican	"	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	White	"	0 10 0 103	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$
G.	18.		£ s. £ s.] £ ε. £ ε.	MACE, 1st quality	"	1 4 2 0	1 4 2 0
ľ	M, fine washed	per cwt.	2 0 2 6 19 0 20 0	2 0 2 6 19 0 20 0	2nd and inferior NUTMEGS, 78 to 60 to 1b.	"	1 1 1 2 2 6 3 5	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	sorts	19	13 0 17 10	13 0 17 10	90 80	"	23 25	2325
	sorts, mid. to fine	"	2 15 3 10	2 15 3 10 1 10 2 6	132 95 ", PIMENTA	"	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$
	IKEY, piek. gd. to fin.	"	7 0 8 10	8 10 10 0		"		
	second & inferior	"	6 10 8 10 4 17 5 10	7 0 8 10 5 10 6 0	VARIOUS PRODU-	OTS.		
	FETIDA, cm. to fin.	"	1 15 3 2,6	1 15 3 2/6	Honduras, black	per lb.	1 6 2 0	1 6 2 0 1 3 1 6
	ZJAMIN, Siam, 1st	,,	12 0 30 0	12 0 30 0	,, silver Mexican, black	"	1 4 1 9	1 4 1 9
	natra	,,	5 0 10 0	5 0 10 0	" silver	27	1 2 I 4	1 2 1 4
	PAL, Manila	19	s. d. s. d. 15 0 . 67 0 145 0 . 152 6	s. d. s. d. 15 0 . 67 0	Teneriffe, black , silver	,,	13 15	1 3 1 5
	ingola, red	**	145 0152 6 75 0 87 6	145 0 152 6	GALLS, Tky blue	"	40 050 0	40 C 50 0
	MAR, pale	`','	75 0 87 6 10 0 15 0	10 0 15 0	INDIGO, Bengal	"	35 0 45 0 1 9 6 0	1 6 5 0
	LBANUM	per'lb.	0 3 0 10	0 3 0 10	, Madras	17	0629	0 5 2 6
	MBOGE, picked pipe	per cwt.	230 0300 0	230 0300 0	"Kurpah	"	1 0 4 0	0 9 3 6 1 0 3 9
	NO	per cwt.	0 6 2 1 28 0 30 0	0 6 2 I 28 0 30 0 30 0 50 0	Guatemala	. ,,	1 0 4 6	0 10 4 0
	wrie, sorts selected	"	30 0 50 0 115 0260 0	30 0 50 0 115 0260 0	ROSÍN, American SOAP, Castile	per cwt.	4 9 12 0 28 0 0 0	4 9 12 0 28 0 0 0
1	RRH, good and fine.	per lb.	1 6 3 3 100 0150 0	1633	SOY, China	per gall.	1600	1 6 0 0
	ordinary to fair	per cwt.	80 0 140 0	100 0150 0 80 0140 0	WAX, BEES, English Jamaica	per cwt.	$\begin{bmatrix} £0 & 0 & £0 & 0 \\ 7 & 10 & & 8 & 0 \end{bmatrix}$	£0 0 £0 0 7 10 8 0
	BANUM, p. drop	"	38 0 45 0	36 0 43 0	East India	"	6 0 7/12/6	6 0 7/12/6
1	amber and yellow	99 99	29 0 37 0	29 0 37 0 40 0 45 0	VEGETABLE, Japan Paraffin	per lb.	£2 12 £2 14 0 4 0 6	£2 12 £2 14 0 4 0 6
	VDARAC	"	60 0112 6	60 0105 0	WOOD, DYE, Bar	per ton	0 4 0 6 £3 5 3 10	£3 5 3 10 9 0 19 0
	ELLAC, Orange	"	63 0 82 0 61 0 64 0	58 0 77 0 56 0 58 0	Brazil	57 17	9 0 19 0 16 0 30 0	16 0 30 0
4	US	,,	25 0 0 0	25 0 0 0	Fustic, Cuba	"	4 0 6 0	4 0 6 0
	in sorts	"	120 0180 0 20 0180 0	120 0230 0 20 0180 0	Jamaica Logwood, Campeachy	"	4 5 5 15 7 10 8 5	4 5 5 15 7 10 8 5
0	ıS.	"			Jamaica	,,	5 0 5/17/6	5 0 5/17/6
	L pale	per tun	27 10 28 10	£ s. £ s. 27 10 28 10	LIMA, first pile RED SANDARS	"	8 5 8 10 6 5 6 10	7 10 8 5 5 0 5/17/6 8 5 8 10 6 5 6 10
2								



We must decline to answer queries sent to us unless accompanied by name and address. This will explain to some correspondents the reason why their questions are not attended to.

5/44. Sub Umbra Floresco.—Castor-oil Pills.—Various aperient pills are sold under this title. We understand that pill rhei, co, is frequently selected. Some chemists, we believe, sell the pill calonel co, for castor-oil pills, because it is made up with that ingredient as the excipient. Pill Coating.—We cannot add to the directions given under this title in last Diary. Do not use sugar coating for permanganate of potash, phosphorus, or ultrate of silver.

5 69. *II. G. H.*—**Pennyroyal and Steel Pills.**—Sulphate of iron (dried), 1 oz.; extract of chamomile, $1\frac{1}{2}$ oz.; oil of pennyroyal, 1 drachm; syrup, q.s. Make into 4-grain pills. Dose, one or two daily.

3/52. Show-card asks "how the beautiful glass-like enamel is given to certain show-cards." He knows it is made of gelatine and glycerine, but would like to hear proportions and methods of application.

Will some one tell A. E. I. how to make Liq. Rosæ Dulc., used both for flavouring and colonring mixtures, and the colour of which is unaffected by either acids or alkalies?—For black ink for indiarubber prescription-stamp use printing-ink thinned with linseed oil, or see formula on page 337 of our last volume (July, 1884).

66 33. W. H. S.—Sulphur fume, i.e., sulphur-dioxide gas, is more than twice as heavy as common air. But, at the same time, there is no need to raise a pau of burning sulphur above the floor of a room to be fumigated. The wonderful law of the diffusion of gases always ensures the uniform mixture of different gases present in the same room, even when the heavier gas is at the bottom. The currents produced by the heat of the burning sulphur will help to mix the gases more quickly.

FIR.—In your last number (page 66) you gave recipe for making a white cement which has proved an unqualified failure in my hands; perhaps you could inform me of my error. I placed the 12½ drachms of caoutchoue in 10 drachms of meth. chloroform—the solution was not easily effected nor wholly effected, so I added 2 drachms more of chloroform; I then put in 2½ drachms of gum mastich, and left it to one side. To-day (three days after placing) the mass is in an earthy condition, with a yellow liquid about it. Perhaps it may look better after ten days.

Yours, with thanks for last reply,

[Porhaps H. C. B. will report his final results, as he has not given the directions full trial as yet. Undoubtedly the most important point is to get pure non-vulcanised caoutchoue. Many specimens of black vulcanised caoutchoue look much like the native article; is it possible that there has been an oversight in this particular?)

5,45. Alpha.—Messrs. S. Percheron & Co., 21 Britannia Street, City Itoal, N., make a specialty of machinery for making cocon and chocolate. Full particulars of the qualifications needed to secure registration as a dentist were given in our September issue. There are several distinct branches of knowledge required by dentists—as dental anatomy, dental surgery, mechanical dentistry, &c.; there is no single elementary work dealing with all these subjects. Tomes's "Manual," published by Churchill, is, perhaps, the most comprehensive.

66 10. W. P.—The following formula for Dr. Bow's Liniment was was given in The Chemists' And Druggists' Diary, 1881, p. 90:—

 Opium
 3j.

 Sapo hispan.
 3ss.

 Lin. camph. co.
 5viij.

 Digest for seven days.

"The above is what is commonly sold as Bow's liuiment, but anyone examining the stamped liniment will observe a difference in the colour from the above, which is probably accounted for by the addition to the patent of a little extract of belladonna."

This can be sold, without a patent-me dicine stamp, as Dr. Bow's liniment, prepared by Blank, Chemist. Erewhou, but not as "Dr. Bow's liniment for sprains, bruises, contusions, &c.," nor as "prepared specially or solely by Blank," nor must it be wrapped in a bill recommending it for any diseases, nor advertised in any almanack or publication whatever in the same strain.

Green Oil.—Properly speaking, this should be made from ha ar origanum, rue, sea wormwood, and elder-leaves, of each 2½ oz.; eec 1 quart; boil gently till the leaves are crisp, press out the oil ange heat till it turns green. But oil of clder leaves is now usually solur made generally as follows:—Elder-leaves, 1 cwt.; linseed oil, 3 cm made as above; rape oil might, perhaps, be substituted. Cooley stooll is generally coloured with verdigris, ½ lb. to the cwt. just hefore the tinto the casks and while still warm; as without great skill angue large quantity of leaves the deep-green colour so much admired in ignorant cannot be given to it. The oil is got from the leaves by an them to drain in the pau or boiler (with a cock at the botto my well heated. To colour the oil with verdigris alone would, we that unjustifiable.

Full details as to pill-coatings of all kinds are given in THE CULAND DRUGGISTS' Diary for the current year.

J. B. H. wishes for a good recipe for a general liver mixture.

5/15. J. F. K. will find a formula for calf-meal or milk substit apage 250 of our issue for May last. For a horse and cattle spice the raing is recommended by Cooley:—Turmeric and cumin-seed, of cacharinger, 2½ lbs.

65/24. *H.B.*—**Leeming's Essence**.—The two formulæ subjoined in heen previously published in our journal:—

Cantharides		 	 		8 0%.
Camphor	٠	 	 		2 "
Euphorbium		 	 		8 "
Oil of origanum		 	 ••	• •	1 ,,
Castile soap	••	 	 		3 .,
Spirits of wine	••	 	 		6 pints

Mix, digest for fourteen days and filter off.

		11.			
Pulv. cantharides			 		8 oz.
Corrosive sublimate			 	••	2 "
Methylated spirit	••	••	 ••	••	2 pints

Macerate for twelve or fourteen days, filter and pour enough m's lated spirit on the filter to make the filtrate measure two pin

Diapente properly consists of five ingredients, as in the Edial Pharmacopoda, 1744, where equal parts of bay-herries, birthwort, gentiony-dust, and myrrhare ordered. Fewer ingredients are often only Thus—(1) gentian, 6 lbs.; bay-berries, 1 lb.; sometimes with 11 mustard; (2) bay-berries, gentian, mustard, and turmerie, equal part; (3) gentian, linseed, bay-berries, and bole, equal parts; copaiba, one-apart; (4) gentian, linseed, and bay-berries, equal parts; bole, enone colour. Used as a tonic in veterinary practice.

5/1. J. B. H.—White Oils.—The formula we now give has be repeated many times in The Chemist and Druggist. It is not a scied mixture, but it is an excellent one, and we would suggest that all readers should take special note of it, so that we may not need to relit within the next twelvementh or so:—Eggs, 12; soft soap, 5 oz.; turtine, 12 oz.; strong solution of ammonia, 6 oz.; strong acetic acid. 8: camphor, 5 oz.; methylated spirit, 10 oz.; encelyptus oil, 2 oz.; water in half the water. Then add, with constant stirring, the camphor discint the spirit, then the encalyptus oil in the turpentine, next, the solution ammonia, and, lastly, the acetic acid diluted with the rest of the water.

2.5. Sub Umbrā Floresco.—The heavier paraffins are now generally relimised as the best hibricating oils, and we think your best plan would be apply to some of the importers of these articles. They are the fratiboliting at higher temperatures obtained in the distillation of the illunating mineral oils.

3/54. Pharmacist.—Capsicum Ointment.—Dr. Turnhull's form was as follows: —Evaporate concentrated tincture of capsicum (4 oz., 12 oz., percolate) to the consistence of a jelly, and mix biji, of the extr with 3 vj. of lard. For external use as a stimulant. It is of important that the capsicum be free from salt, otherwise it will vesicate (Beasle Martindale and Westcott give the following formula for Linimentu Caps ci as better than Turnbull's conceutrated tincture; it wo probably be preferred to the ointment as well:—Capsicum fruit in coal powder, 14 oz.; rectified spirit, q.s.; percolate to obtain § oz.; add oil ac., 9½ drachms, and oil of laveud drachm.

T Chemists' Aërated and Mineral Waters Association (Limited).

to th hemist and Druggist -

Sn In reply to the letter signed "Chemist," which appeared in your stie, as a shareholder of the above Association, and large purchaser, of m ral waters, allow me to state that if members were forbidden to appoint merchants, hotels, or any one they chose, I think I may say 1 1 brother-chemists who are members, and doing a good trade in waters, would be compelled to leave the Association and purchase

I salways too pleased to supply wholesale where I can. If we refused nee else would supply. J. H. (4/67.)

Lon, March 6.

flers to the same effect, but of unnecessary length, have also been ord from Mr. W. A. Wilson (London) and from the Secretary of the tion. It is not requisite to print these, as the misapprehension has fficiently cleared up.]

Auxiliary Trades.

Themist and Druggist-

-Has the Pharmacy Act done any good to the drug trade? is a quesn'ry frequently asked, and nearly as often answered in the negative n bave protected the public; but has the public given anything in ti? Many, very many years ago, we were told that the Pharmacy Act as elevate the trade almost, if not quite, to a profession, and that re ing outside of pharmacy was not to be tolerated in our shops. Most told members of the trade will remember that chemist and grocer was usual combination in the palmy days of their apprenticeship, and I fined to think that this was not an unmixed evil. There is a deteron amongst grocers to get as much of our trade as they can, and the bare not slow to avail themselves of the opportunity of buying at ei rocers many little things which make up our trade, as they can have er cut to their homes with the groceries, which they prefer to do, than allow the chemist to send a small parcel, however willing or ix s he may be to do so. Is it desirable that we should continue ruinby r trade for the sake of protecting a public which does not appreciate a otection? We expected to have gained not only the confidence of dical profession, but a greater share of their patrouage, and with this sali ope many who could have made a good prescribing trade have dison ed it, hoping to cultivate more friendly relations with the doctors. unive their hopes been realised? Rather, do not they find the doctor my eases recommend his patients to get some proprietary syrup or th preparation at the grocers, a course which may to some extent save he own stocks of drugs, but which, I think, will bring its own day of ec ning with the medical profession. In the first place their patients wil ke again and again the same remedy without further consultation; nearther, the public will gradually become impressed with the idea that u al men approve of patented nostrums as a rule. There is another er great danger ahead for chemists, and that is, as chemists' accounts fal I with wholesale houses, there will be great temptation for the latter o p up their returns by calling on grocers, the smaller houses first, and rger ones will say they are compelled to follow. The question is, hare we going to allow grocers quietly to absorb our trade, or shall we re a to the practice of olden times and keep the heavier articles of the gir? I know that the profits in the grocery trade are very different to of the palmy days I speak of, and I daresay it is this which induces til to add to their trade what seems a more profitable branch of busi-I ask, ean nothing he done to prevent it? It is vain to look to the Cheil of the Pharmaceutical Society for help; hut I think the committee e Trade Association might get uuch useful information from the heads holesale firms if they would take the subject in hand.

Yours truly, M. P. S.

Pharmaceutical Society of Australasia.

he Chemist and Druggist-

ir.—It has come to my knowledge lately that, in several justances, new vals here and elsewhere have been labouring under the delusion that Pharmaceutical Society of Australasia, which is a Victorian society, jurisdiction and influence outside the Colony of Victoria.

will, therefore, save much trouble, and, perhaps, hardship, if it is t oughly understood that the above named Society (which is simply a orian society) has no jurisdiction outside that colony whatever, and it afortunate that the term "Australasia" was taken, as it is incorrect, will lead to much unnecessary trouble, I fear.

he certificates of the Victorian Board of Pharmacy and of the above tety do not entitle the holder to practise his profession as a pharmaccu-1 chemist, for instance, in New South Wales or New Zealand.

ydney, N.S.W., January 7.

I am, &c., M P. S. (28/254.)

4/35. G.B. Pil. Rhei Co.-Your experience is contrary to our own. The pills do not "pit" if made with the proper quantity of treacle, and if, after rolling out, they are exposed for a few days on the tray in a dry place. Ten grains of tragacanth per oz, might prevent the "pitting." Send us a specimen of the boxes you want.

3 1. William Ledger .- B.P. Dilute Acids .- A constant quantity of water cannot be insured, hence the Pharmacopæia direction to wait until the mixture is cold before making up to the required volume. Could you not make a small experiment to satisfy yourself?

Carbonate of Iron for Neuralgia.-Ferri oxidum hydratum, B.P., is generally given, but the correct article is the ferri oxidum rubrum hydratum, Ed. Phar. This is made from sulphate of iron and carbonate of soda, and has not the same composition as the B.P. oxide. Some wholesale houses supply it when it is specially asked for.

2/57. T. M. D. -Barometer. - If the tube is not fixed to a board, fix it temporarily to one a little longer than the tube. Put your mercury into A, close with the thumb or with a cork, and reverse quickly, so as to get a little mercury round the bend; then tap the top of the board carefully on the ground, in order to get a little mercury down B. Repeat the operation until the tube is full. Finally, you must compare the level with a standard or ancroid barometer, and make a correction if necessary. If there is too much or too little mercary in A your harometer will read either high or low, as the case may be, and you will require to remove or add accordingly. Do so with a pipette, carefully.

1,74. Soda Acetas .- Non-corrosive Chemical Heat .- "The other day a customer came into the shop and asked me if I could supply him with chemicals for the above. He told me that the London and North-Western Railway Company were using it in their foot-warmers, and that by simply shaking the foot-warmer a heat greater than that of boiling water was obtained. He says that it does not affect the metal at all, and that the chemicals will last for some time (i.e., for three or four weeks), and will always develop heat on shaking." Sodæ acetas is the chemical, as your pseudonym hints, but it has been somewhat "embroidered and decorated" in the account you have received. The foot-warmers are filled with sodium acetate crystals, and are then placed in a stove and heated to 100° C. The salt dissolves in its own water of crystallisation, and on cooling the saturation point is reached, and if then shaken a considerable amount of heat would be developed by the sudden crystallisation of the salt. It will probably last for all time if a little water is occasionally added. See THE CHEMIST AND DRUGGIST for 1880, p. 172.

1/12. A. G. S. C.-Non-conducting Composition for Covering Boilers, Hot-water Pipes, &c.—The best, we believe, is an asbestos composition. You can get particulars concerning it from Bell's Asbestos Works, 118 Southwark Street, S.E.

6/41. Subscriber.-Hunter's "Mechanical Dentistry," published by Crosby Lockwood, may suit you. Anyone is free to perform any dental operation, provided the title of dentist is not assumed. But if credit is given, and the debtor refuses to pay, none but a registered dentist can recover by law. Anyone may supply artificial teeth, and advertise his readiness to do so under the same limitations. We are not quite sure if the time has expired during which registration could be obtained by passing certain examinations sine curriculo. As regards this, inquiry should be made at the Office of the General Medical Council, Oxford Street. For particulars as to the examination see The Chemist and Druggist for September last.

6 24. F. W. D. writes :- "How can I prevent a perfume from staining the handkerchief? It contains rad. iridis, Jiij.; vanilla, Jij to 50 oz. of rectified spirit and French essence. I allow it to macerate till it is all sold." [Have you ascertained if it is the tiucture or the French essence that stains? We suspect it is the latter, and in that case it will be difficult to improve. It would be advisable to communicate with the dealer who supplies you and choose your essence with regard to this peculiarity. If the tincture is in fault, why not substitute vanilline for the vanilla? Probably it would be better to unacerate the materials for a reasonable time, say a fortnight, then bottle the product in smaller bottles, which could be left to unature without exposure to the air for some time before there is need to open them for retail. You cannot be too particular in the selection of the spirit.]

Legal Queries.

2,43. Validity of a Patent. -A, B, C wishes to know what constitutes an infringement of a patented article. For instance, would a preparation under another name containing not all the same ingredients (although it might contain one of the same) and intended to produce the same effect as a patented article be an infringement of that patent; or does the taking ont of letters patent prohibit any other preparation being sold to produce the same effect?

This is a very difficult question—one to which we can give no very positive answer. We believe the general principle is that a patent can cover particular means to secure a given end, not all means that can be used to the same end. The question that arises in your particular case is, whether the original patent is still in force—i.e., have all the fees been paid to date? then, is it valid, or does it claim too unuch, as we have sometimes thought it does? To settle this would require an action at law, which is much too costly. On the other hand, other preparations are in the market which seem to be infringements of the patent strictly interpreted. But these matters are so complex that we must decline to take any responsibility, and the best advice we can give is that you should get the patent yourself, and then consult personally an experienced patent agent.

The Law of Contract.

SIR,—Are the printed statements contained in counter-bills concerning patent medicines legal contracts? The enclosed bill recommends a patent medicine which it states cures asthma and many other diseases.

Now if I circulate such bills, and a customer buys the article, and, after using it, finds his disease is not cured, can he claim damages from me for breach of contract.

Yours truly,

H. E. I. (4/68.)

[Certainly he can claim damages and can she you through every court in the land for them. But we do not at all think he would get anything. The Bill you enclose makes no contract to cure any particular case of asthma; for anything we know it may be perfectly true and provable that the preparation has cured asthma.—Ed. C. & D.]

 $5/24.\ Norman, — Pateut-medicine stamps and licences are not necessary for veterinary preparations.$

2/15. Xenophon.—By the Act of 1830 beer was defined as including ale, porter, spruce-beer, black beer, and any other description of beer, so that a licence must be taken out for retailing it.

Dutch Drops.

To the Chemist and Druggist-

SIR,—As some uncertainty appears to exist in the trade respecting the medicine known as "Dutch Drops," as to whether it is liable to stamp-duty or not, and wishing to clear the matter up to my satisfaction, I wrote about it to the authorities at Somerset House, and received from them the Lollowing reply:—

"Sir,—In reply to your letter of the 19th instant, I am directed by the Board of Inland Revenue to inform you that 'Dutch Drops' are expressly charged with stamp-duty by the Act 52 Geo. III., c. 150, and must not be sold nustamped in the United Kingdom by any person, either to chemists for retailing or otherwise.

"I am, sir, your obedient servaut,

(Signed)

"W. W. Cousins."

Thinking that others might like to have their doubts removed is my reason for writing on the subject.

I remain, &c.,

INQUIRER. (4/4.)

Corn-plasters.

We have had some more communications respecting the necessity of stamping boxes of corn-plasters. The Board requires that these shall be stamped if an exclusive right in the manufacture be claimed. Thus, if labelled "X's Corn-plasters," the box must be stamped. So, too, a stamp would be necessary if, by the label or by other publication, the plasters are recommended for the cure or relief of corns, &c. But a box labelled merely "Corn-plasters," directions for application, and name and address of vendor or maker, would not require a stamp.

Prosecuting Pharmaceutical Offenders.

To the Chemist and Druggist-

SIR,—Your February number contained a letter from the secretary of the Chemists and Druggists' Trade Association, stating that if a clear case of the infringement of the Pbarmacy Act, either at Birmingham or elsewhere, with which the Association has power to deal were brought before them, your correspondent might rest assured that the same would have prompt attention. I should like to say that I received from a customer a label with the words "Red Precipitate—Poison," and the name and address of an unregistered chemist. I met a neighbouring chemist and gave him the label to look at, and, at his suggestion, I sent it along with a letter first to the secretary of the Trade Association at Birmingham (Mr. Haydon), and had a reply to the effect that they were coming into this

district, and would prosecute offenders of the Pharmaey Act. I have seen nor heard from Mr. Haydon since, save and except an applican my yearly subscription some months afterwards, which I declined set and from which time I ecased to be a member of the Trade Association.

I enclose my card, which on application can be given to Mr. Hayh, is only fair to say I sent the label (having asked for its returned perusal) to the secretary of the Pharmaceutical Society, and recovague reply only.

LANCASTRIAN. (2)

"Rough on Rats."

E. S. Wells, the proprietor of "Rough on Rats" (in view, we sup a of steps which, we understand, have been taken by the Pharmac Council) asks us to state that "this article is now prepared with a proportion of colouring matter, making it much darker, to conform the working the sale of such articles in Great Britain, and cheminal darker are such as the same by conforming to the law governing the poisons."

[This is true, but it needs to be made a little clearer. "Rough on is said to be mainly arsenie. As such it comes both under the Ag Act and the Sale of Poisons Act. It may only be sold by regionemists; it must be labelled with the word "arsenie," the word "pa and the uame and address of the seller; and every sale must be region the Arsenie-book with the particulars there required.—Ed. C. & D

A Wail.

(Suggested by some recent letters to The Chemist and Druggist che subject of "Cutting Prices.")

I'm a chemist in the country, and really do not know How to get a living nowadays, prices are so low. With Cockle's pills at ninepence, Mrs. Allen's three-and-six. A dozen pills for twopenee, I'm really in a fix. But I'll not reduce my prices-I hate such eaddish tricks-I still want twenty sbillings for what's sold at two-aud-six. Now what I say is simply this, that meu who dare to sell Their goods at prices fair and just deserve to go to-well-We may not be too hard on them, but if I had my will They'd go to geutle Colney Hatch or else sweet Pentouville. But lo! some genial letters come, some prophets now draw night Who say we yet shall fortunes make by keeping prices high. They say we better business do than thirty years ago; That's rather hard to swallow, sir, but sure he ought to know. There's Mr. Thoms lives in our town, who won't believe in "cult And says we should be business meu, but that is an insult. Thoms advertises far and near, he's bought our fine Town Hall, And bills his drugs and patents on every blesséd wall. Last week he bought our mouument, the only one we've got, And now the name of Thoms is seen all over that fained spot. True, he lives in princely style, drives to business with a " pair"; But what a couseience he must have! it really is not fair For him to live in Nabob style while we can scaree exist-To bask in Fortune's brightest sun, we in perenuial mist. He does it all by "cutting," sir, by "puffing," and by push, But for such means by such foul means I would not give a rush And I'll not reduce my prices-I hate such caddish tricks-I ean't get twenty shillings, and I won't take two-and-six.

Provincial Names of Drugs and Medicines.

To the Chemist and Druggist-

SIR,—Below please find my quota to list of "Provincial Names of Dra and Medicines." [After giving a few that are universally known, the writer adds:—]

The following are not so eoumon :-

Felon wood · · · Dulcamara Bitter-sweet Ladies' blus h Carmine Godfrey's cordial Quietness... ٠. Tinct, benzoin co. Tincture Benjamin Violet root ٠.

"Bob Roberts" I have not heard of, but there is a preparation, I believe in considerable demand in some parts of Laucashire for conghs, known as "All Fours," which consists of oil aniseed, oil of peppermint, laudanum and paregoric, 1d. each. Yours,

King's Cross, Halifax, February 12.

J. SWIN.

To the Chemist and Druggist-

SIR,—I have a manuscript book, upwards of 100 years old, and a recipe for "oil of swallows" is in it; it may amuse, but certainly not instruct. There are many more startling formula, of which I send a specimen, or two.

Yours, &c.,

Egham, February 25.

W. B. (234 5.)

OYLE OF SWALLOWS.

b. May butter nawashed, one handful rosemary tops, as much Cotton, as much Strawberry strings grown in wood, 16 young ont of the nest feathered, pound them alive with these herbs, ting ye butter little by little, pound it very small, put in an earthen ad red very close, digg a hole in ye ground, bury it four days, take it and il it 10 boils or better, stirring it, then straine it with a new myas. [See another formula further on. May butter has nothing h butter from milk or any other animal or vegetable fat. It is ig illed Nostoc.]

FOR A BRUISE.

morse dung, or new cow dung, fry it in hogs lard till looks gr g.y it.

CURE FOR AGUE.

heart of an hare dry it in an oven beat it to powder and give it drink one hour before ye fitt comes.

EXCELLENT FOR AN AGUE.

ake biggest toad as you can gett and hang it up by one legg in ye t he beat himself to death yen take him pound him gutts and make powder of him and wear him about your neck in a silk

FOR CONVULSION FITTS.

penarth of arsfodita and sow it in a silk bagg about ye neck pare skin lett it hang on till it wears away and decay and you your cure perfect having never a fitt afterwards.

the remist and Druggist - ..

San Julpeper, in his " London Dispensatory," 1653, page 217, gives the low for "oil of Exeter."

Yours truly,

35 lington Street, Ramsgate, Feb. 16.

C. J. Fox.

OYL OF EXETER.

Talof the Leaves of Wormwood, Centanry the less, Eupatorium, Fennel so Bays, Marjoram, Balm, Nep, Penyroyal, Savin, Sage, Time, of each outhernwood, Bettony, Chamepitys, Lavender, of each 6 oz.; Roseb.; the flowers of Chamomel, Broom, white Lillies, Elders, the seeds Train and Fenugreek, the roots of Hellebore, black and white, the Ash and Lemmon, of each 4 oz.; Euphorbium, Mustard, Castoreum, livy of Spain, of each an oz.; Oyl, 16 lb.; Wine, 3 lb.; the herb, seeds, and Enphorbium being bruised, the Roots, Bark and Castorcum b, of them Infused twelve hours in the wine and oyl, in a warm bath, on yled with a gentle fire, to the consumption of the Wine and is e, strain the Oil and keep it.

My people by catching bruises when they are young, come to feel it hey are old; others by catching cold, eatch a lameness in their al o both of which I commend this soveraign oyl to bath their grieved an is with.

(I)s carries oil of exeter back a century, but we still need the original rra and some explanation of the name. It shows that Quiney mil balm, nep, and pennyroyal, white lilies, elders; explains broom to he flowers, and adds ash bark; chamæpitys in Culpeper is ground in a Quincy, or Teucrium chamaepings. A formula is sent us from at is "Devon Medicum," 1677, which differs only in ordering mandlin nie of eupatorium. Can any reader take this formula beyond 1653? -1 C. & D.].

To Chemist and Druggist-

wood gives the following for "Exeter oil":--

Green oil of cl	der		••	••	••	• •	16 lbs.
Euphorbium		••	••	• •	••	• 1	1 oz.
Mustard	••		• •	• •			1 oz.
Castor	••	• • •	••	• •	• •		1 0%.
Pyrethrum	••	• •	••	• •	• •	• •	1 oz.

original had thirty-one ingredients, which were to be infused in wi and oil, but it is now seldom made.

fri oil of elder is usually substituted for it, some add a small quantity of rit turpentine. gan.

B. W. PRICE.

To e Chemist and Drugglst-

-Agreeably to your published request, I forward the appended list synonyms, with remarks which are the result of a half-honr's mitation (opportunities for which are not very frequent), but will ac-

upon your suggestion and note down the synonyms as they occur during the next few weeks, and thus amplify the list :-

Citron ointment	••			Ung. hydr. nit. dil.
Blue butter)	
Unction	• •		-	Ung. hydrarg. mit. co.
Troopers' ointment	• •	••)	
No name ointment		• •		Ung. hydr. mit. dil.
Oil of brick			(Oil linseed, 6 oz.; oil turp.,
Oil of spike			1	3 oz.; oil thyme, 1 oz.

This formula, I believe, has been used for upwards of a century, in a retail establishment in this town, which has been handed down several generations, and where I served as an assistant at one time.

The old gentleman who was the last to retire from the above business elaims to be the originator of the synonym "Ointment of No Name" (he is about eighty years of age), and declares that ung. hydrarg. ammoniata. so widely sold in the district under the "name" (?) was sold as an imitation of his originally. He once gave me a version of how the absurd title originated.

[We should be glad to hear the version.]

```
Sal polyeress (properly "polychrest") .. Potass, sulph.
Salts of wormwood ..
                                     Potass, carb.
                        . .
Salts of tartar
Japan earth ..
                                     .. Gun eatechu (used for
                                           excessive menstrual
                                           discharges)
                                         Liq. am, acet, cone.
Minderns spirit
                                     .. Mellis enpri acet.
Ægyptiaeum ...
                         ..
Black drops ...
                                     ``} Balsam sulphur
Dutch drops ..
Dias. cordial, or mithridate. [Is mithri-] A compound of aromatic
                                          powders, treacle, with a
 date still asked for to any extent ?]
                                           small quantity of opium
                  (Mine is an old recipe.)
```

				• /
Balsam of life				} Tineture gnaiaei
Tinct, of life		••	••	[This is unusual; for tr. benz. co. is generally sold]
Balsam locatelle	••	••	••	I have it in stock, but do not know what it is
Balsamieum				Friar's balsam
Lin. myrrh	••			··) m
Black myrrh				Tr. myrrh co.
Paregoric				•• \
Oil of swallows [made from sw	[see in t allows]	his is	sue; r	eally What was the origin of these synonyms?
Hiera piera				these synonyms.
	••	••	••	Godfrey's or anodyne cor- dials, opium, treacle, and aromatic oils

Worm seed Sem. hyosey.

So called, I suppose, from the shape of the parched cotyledons. Our patrons put them on a hot penny or plate, and hold the mouth over them for toothache: the heat disintegrates the seed and seatters it, and the enried up cotyledons left after the operation they religiously believe to be "worms" extracted from the carious tooth. A friend of mine actually saw this faree enacted on the platform of the principal public hall in the town, within a twelvementh since, by a popular travelling "professor" of phrenology, quaekery, &c. [This is a very old theory. The "Grete Herball," published 1526, was the first English work announcing it, and is itself a translation of the "Ortus Sanitatis"]

I presume iron alum was originally used under this name, but I faney what is sold nowadays is very rarely anything but ammonia alum coloured with red other or bole. What degeneracy! [No; the alumen of the Romans was natural green vitriol from mines. When our alum became known it was considered a species of the ancient; and as it was purer and more proper to be used on most occasions, the name of "alum" was soon appropriated to it alone. The ancient alum, i.e., green vitriol, maintained a preference in medicine and in dyeing black. Historians say that Europeans first learnt the art of making alm at Rocca, in Syria, which is probably Edessa, which Niebuhr says is called "Roccha." It appears that the new alum was at first distinguished from the acient vitriol by the denomination of "rocea," from which the French have made alun de roche and some of the Germans rotzalaun ("Valentini Historia Simplicium" and other works). Some think the name is derived from rocca, which in Greek signifies a rock, because this salt is by boiling obtained from a stone; and these translate the word alumen rupeum, from which the French name is formed (Jnl. Cas. Scaligeri Exot. Exercitat. Franc," 1612, p. 325). Some are of opinion that alum obtained from alum-stone has been so called to distinguish it from that procured from schists, which is gene-16 lly mixed with more iron than the former, and others maintain that alum acquired the name of "rocca" from the alum rocks in the neighbourhood of Tolfa. Beckmann is inclined to adopt the opinion of Leibnitz that alumen rocca was that kind first procured from Rocca, in Syria, and that this name was afterwards given to every good species of alum, as at his time (1780-1800) the purest was called "Roman alum," See Beckmann's "History of Inventions," vol. i. p., 180-198, Bohn's edition, for full information as to its early history.]

37		
	ours, è	

MIDLAND CHEMIST, (254 15.) Nottingham.

To the Chemist and Druggist-

SIR,-The following are the formulæ you ask for :-

DIAGRYDICM.

.. lb. j. Puly. scammon. Succ.eydoniæ lb. ij.

Digest for twelve hours, and evaporate to dryness.

TINCT. VITE.

Ol. origani	 • •	••	••	 	3vj.
Sp. lavand. co.	 			 	Зiij.
S. V. R	 			 	žxii
AΓ					

Or, an older form, known also as "Whitworth's Drops":

Ol. origani		 •	••			5v.
Ol. rorismar.		 				3ii;
Sp. lavand. co.		 		• •		3188
s. v. R.	• •	 	• • •	• •	• •	3vj
М.						

[Whence are these formulæ taken?]

I have extracted from a very old edition of the Paris Codex a formula for oil of carthworms, which differs slightly from that given by "A. C. S." In it equal parts of live earthworms, olive oil, and good white wine are ordered to be simmered together, pressed, and strained. The oil is said to be an excellent discritient. Pharmacy would indeed seem, as your correspondent says, to have been scareely so elegant in olden times as now, but some old prescriptions were simpler than the above, if not more scientific. Here is an example from an old book of farriery :-

FOR COLIC IN SHEEP.

"If a sheep have ye colic, lay him down gently on his back, give him three kicks in ye guts, set him on his legs again, and he will do very

I regret that, the book being lost, I can give you neither its name nor date, but the prescription is anthentic.

Epworth, February 18.

C. C. BELL.

SIR,-I send you a few provincial names of drngs, &c., and hope they will be of some interest :-

Daffy's elixir	••		• •		Tinct, sennæ
Ean de luce					Tinct. ammon. co. P.I
Yellow basili	eon		• • • •	••	Ung. resina
Carron oil .					Liq. calc. c. ol. lini.
Crumbly oint	inent				Ung. cretæ
Toothache se	ed			,,	Sem. hyosey.
Violet root .					Rad. iridis
Flake gum .		••			Gum tragacanth
Fiddle gum .					Gum tragacanth

(Known to shoemakers only by this name; used by them in making "fiddle-shaped waists of boots.")

L.	е-ѕпарси wa	1568 01	DOOLS	•)			
	Pearl ointm	ent					Ung. zinci
	Black drop						Liq. opii sed. (Battley)
	Steel drops						Tinet, ferri perchlor.
	Red blister	••	••	••	••	••	Ung. hydr. iod. rub. (1 to 7) for veterinary purposes
	French flies			• •	••		Cantharides
	Spanish flie	s		••			Cantharides
	Plummer's	pills			• •		Pil. hydr. snbehlor, eo.
	Early risers	S		••	••		Cathartic pills
	Working pi	lls					Cathartic pil!s
	Hard salt						Ground alum
	(I beli	eve it :	is kno	wn to	bakers	onl	y by this name.)
	Vol					٠.	Ammon. carb.
		(Some	times	called	"Tom	" b	y bakers.)
	Crabs eye			• •			Creta ppt.
	Black jack						Mist, sennæ co.
	Black strap	* (kn	own to	Seote	eh saile	ors	
	by this na	ane)					Mist, seunæ eo.
	Red cerate	*					Ung. calamin,
	Toothache	erystal	*	••	••		Hydrate of chloral
	Toothache			••			Acid carbol. c. collodion

(* Aberdeenshire; contributed by a Scotch assistant.)

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We are frequently asked for
   Licker stick.. .. ..
                                 .. Liquorice root
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Perhaps the following extract from a work by Nicholas Culpepeigh, lished January 2, 1653 (title page wanting), will account for it :-

"LOHOCH, or ECLEGMATA."

CULPEPER.-"Because this word, also, is understood but by few, first explain what it is. 1. The word Lohoch is an Arabiek word, call Greek Eclegma, in Latin Linctus, and signifies a thing to be lieb 2. It is in respect of body something thicker than a syrup, and thick as an electuary. 3. Its use it was invented for was again roughness of the windpipe, diseases and inflammations of the hinging culty of breathing, colds, coughs, &c. 4. Its manuer of reception in a Liquoris Stick, bruised at the end, to take up some and retain it in the till it melts of its own accord." Yours truly,

53 Greengate Street, Stafford, March 8.

[Mr. Marson sends also the formula for oil of Exeter, from Cupe which we had already received from Mr. C. J. Fox, also oils of swallows, and earthworms, identical with those quoted from Salas "Doron Medicum," 1677.]

Sin,-I am interested in your Provincial Names of Drugs and Medies and think it will be a valuable feature of your journal if you can in contributions from various parts of the world.

The following are a few names I remember meeting while in the trade :-

```
.. Glycerine
Giveerine oil
                . . ..
                            ..
Ox vomit ..
                ..
                      ..
                                     Nnx vomica beans
                .. ..
                                  .. Colocynth
Agac apple ..
                            ..
White eye salve ..
                    ..
                                      Oxide of zinc ointme
                            ..
                                  ..
                                  .. Carbolic acid
Horse acid ..
Essence of smelling salts
                                  .. Aq. ammonia
Buttercolonr ..
                                  .. Annatto
                      ٠.
                            ..
Wart canstic
                                 .. Lnnar caustie
                . .
                      ٠.
                            . .
Lemon acid ..
                                 .. Tartaric acid
.. Ground mustard
                ٠.
                      . .
                            ..
Blister meal
                ..
```

I do not think any of these need explanation as to their origin. In CHEMIST AND DRUGGIST, vol. 27, page 63, you give "olenm petula" synonym for "dogget." This was evidently copied from Nat. Drug., section 25, 305, where it appeared as a typographical error. It sho "oleum betulæ." For oil of brick, &c., see Nat. Drug., vol. 6, sect "That German Prescription."

Yours, &c.,

St. Louis, February 6.

H. M. WHELPLEY, Ph.G.,

[These American synonyms are very interesting, and have a chan of their own. It is well known (or ought to be) that many soc Americanisms are good seventeenth century English, carried acros Atlantic by the Pilgrim Fathers, and better preserved there than at h With six out of the ten names given by Mr. Whelpley this cannot be case, as the articles are of much more recent discovery, but some others may still survive in this country.]

Sir. - We notice with much interest your growing collection of Pro Names of Drugs and Chemicals. Amongst them we do not find any tion of two for which we are constantly asked by old customers. pompelion ointment, i.e., ung. samb. vir., and mignonette ointment, empl. mellilot. We are, yours, &c.,

POINGDESTRE & TRUM 71 Old Kent Road, S.E., Feb. 23.

TINCTURA VIT.E MYNSICHTI-MYNSICHT'S TINCTURE OF LIFE. .. lb. vj. lb. iv. Orange and Citron Peels, Red Roses, dried, Mint-.. 3ss. Bawm, White Sanders, Cinnamon, aa .. Nyloaloes, Mace, āā .. Бij. Seeds of Coriander, of Angelica, of Anise, of · Fennel aā :. ... Spicknard, Galanga the Less, Saffron, Cardamoms,

Ambergrise, Musk, aā ... Let them stand in digestion for 8 days, after destill them by Al bick, to lb. vii., of which put Cassia Ligna 3ij., Confectio Alker (or the juyce) 5, Saffron 5ss. Digest till the tincture is perfect. t with Symp of Sugar Candy q.s. sweeten it, and keep it for use.

Cloves, āā ...

OLEUM HIRUNDINUM-OYL OF SWALLOWS.	
Whole Swallows	No. xvj.
Camomil, Rue, Plantane the greater and lesser,	
Bays [i.e. leaves], Pennyroyal, Dill, Hysop, Rose-	
mary, Sage, Hypericon, Costmary, aā Mj. [of	each a hand!
Common Oyl	lb. iv.
Spanish Wine	1b. j.
Make an oyl according to art. But if you will take so my	ach May But

as y o of Oyl and Boyl it with the aforesaid things, it may have the

OLEUM SALIS COMMUNIS-COMMON OYL OF SALT.

of each Salt or Spanish Bay Salt as much as you will, dissolve it in water and filter it; mix with this brine (in a Copper Vessel) fine Powder of the salt before dissolution, set ion live eoals, and let the water evaporate away (continually stirring at it lit be very dry; then put the powder into a Glass Retort, well lute 1, plac in a Farnace with a large Receiver, giving a naked fire by degrees to the eight, so shall you have in the Receiver Oyl or Sharp Spirit of fife this liquor in a small Retort in Sand by separating the Fleg according to Art; then keep it in a Vessel close stopped for use.

OLEUM LATERITIUM PHILOSOPHORUM-OYL OF BRICKS.

Bus broken in pieces, as big as Beans or Pidgeons Eggs, heat them it and quench them in old Oyl, letting them by till they be cold, take that, beat them into a fine Powder, and still them in a Retort, with a net ent Receiver, in an open fire by degrees: the Oyl dropping from keep in a glass close stopped.

OLEUM LUMBRICORUM-OYL OF EARTHWORMS.

worms lb. ss. first wash them in water, often changing it, then in hi Wine, in which also macerate them an hour. Casting away the lb. ut the Worms into a double Vessel, to which add Oyl Olive lb. ij. hi Wine lb. ss. boyl it to the cousumption of the Wine, then strain it to a Cloth and keep it for use.

(E. BALSAMI, PETRI DE EBANO-PETER DE EBANO HIS OYL OF BALSAM,

gyrh, Aloes, Spicknard, dragons Blood, Frankineense, Mummy, ax, Carpobalsam, Bdellium, Ammoniacum, Sareocolla, Safron. as I, Gum Arabick, liquid storax, labdanum, eastor āā 5ij. Musk 588, ur tine the weight of them all. Being bruised and beaten let them be x id destilled in B. M.

SYRUPUS CAPILLORUM VENERIS-SYRUP OF MAIDENHAIR.

Maid Hair 3v., Liquorice 3ij. steep them a natural day in lb. vj. of warm cin water, then after gentle boyling in B. M. and straining, to the draw Liquor lb. iij. adding clarified sugar lb. isj. make a syrup according

OLEUM ENCESTRENSE-OYL OF EXCETER.

W nwood, Centory the less, Maudlin, Fennel, Hyssop, Bays, Marna Bawm, Nep, Peunyroyal, Savin, Sage, Tyme, āā živ. Schernwood, Bettony, Chamapitys, Lavender, āā žvj.

R mary lb. j.
Plers of Camomil, Broom, White Lillys and Elder Seeds, of Cummin

regræke, roots of Hellebore white and black, bark of Ash, Limon

a ziv.

E torbium, Mustard Seed, Castoreum, Pyrethrum ää zi. Oyl lb. xvj.

in b. iij. The Herbs, Flowers, seeds and Euphorbium, being bruised,
the ots, Barks and Castor eut, and being digested in the wine and oyl

I f. for twelve hours, and then boyled gently to the consumption of
the uosity strain it out, and keep the Oyl for use.

Racted from "'Doron Medienu; or, A Supplement to the New Dispensatory.' By Salmon. From the Blew Bell in Shoo Lane, new leet Street, London, July 12, 1677."

To Chemist and Druggist-

Hieory picory powder, Riera picra ... Aloes et canella Hieory picory liquid Vinum aloes Hydrate of potash (contraction for

hydriodate) Potassii iodidum

Spanish, or Spanish juice . . . Solazzi juice
Bitter apple Coloeynth

Fiddle rosit, fiddle rosin, colophony . . . Resina alb. seu resina flav

Neatsfoot oil, trotter oil Oleum bubulum
Plummer's piils Pil, hyd, subchlor, eo,
Christison's pill Pil, eol, e, hyos,, 2 gr

Hamilton junior's pill Pil. eol. c. hyos., 4 grs. each, and prepared with pulv. ext. coloc. co.

Hamilton senior's Iil (rarely, if ever,

asked for now) Pil aloes.

bley says Dr. Hamilton's pills are the same as the colocynth and henban pill of the Ph.E. (i.e., socotrine or East Indian aloes and scammony,
of a 8 parts; sulphyte of potass, 1 part; beat them together; add of
col nth in fine powder, 4 parts; next add of oil of cloves 1 part, and with
the 1 of a little rectified spirit beat the whole into a mass. Beat 2 parts
of smass with 1 part of extract of hyoscyamus and divide into 5-grain
pill Also, that the compound pills of gambogo, now vended under the
tit f "Morison's No. 2 Pils" were long known as "Dr. Havilton's

Pills." The latter were made as follows:—Coloeynth, 1 part; gamboge, 2 parts; aloes, 3 parts; and cream of tartar, 4 parts; made into a mass with syrup, divided into 3-grain pills. These are active purguives, often acting with great violence.]

Mr. Samuel Lawrence, Oban, has met with the following :-

[We omit some that are pharmacoposial and others that seem to be universal.]

ARTICLE SOLD Bluestone .. Cupri sulph. Steel drops .. Tinet, ferci perchlorid. • • Steel powder Ferri earb, sacch. Rigobalsam [properly Riga balsam.] . Tinet, Benzoini comp. Fly blister Emp. cantharidis Opodeldoc .. Lin. onii [This is very unusual!]

Neatsaw, erabsaw, Jack's grease, troopers'

ointment, blue butter, blue unction, .. Ung. hydrarg, mit.

[Is "saw" a Scottish equivalent of salve?]

Crown councillors' ointment Ung. hyd. oxid. rubr. White healing ointment .. Ung. zinei oxid. a'b. Basilicon, or drawing ointment .. Ung. resinas Oil of tar for toothache .. Creasotum Fruct. capsici Chillie pods Hamilton's pills ... Pil. eoloc. et hyoscyami Gregory's pills Pil coloc. comp. Pil. hydrarg, subeblor, co. Plummer's pills Red lotion .. Sulph. zinc., gr. ij.; tr

ed lotion Sulph. zinc., gr. ij.; tr l tvand. co , Wl. xv.; aq ad 3 j.; solve

White aperient mixture ... Xist. alba of King's College Hospital

[Stick lac is properly the twigs naturally incrusted by the lac insect from which the lac dye has been afterwards extracted]

Æthiop's mineral Hydrag, su'phuret, e. sulphure Sai or's pepper Pulv. eubebæ .. Oleum ricini Opening cil . . Children's magnesia Magnes, calc. levis Baby's water Liquor calcis Violet powder Baby's dusting-powder .. Mist. sonnæ comp. Black strap Rum colouring Saccharum ustum ٠. .. Succ. glycrrh., Solazzi Black sugar Terebinth, veuet. Horses' solid turpentine . .

And the following rather amusing terms :-

[Some of these being evidently merely ignorant mistakes, our space compels us to omit.]

ARTICLE SOLD NAME Corpse-reviver Pick-me-up .. Camphor Smell of the doctor Ol. verbenæ vel citronel. Smell of the barber Sulphur hair-restorer Restoring-sulphur Cage for waiu's arm [wean's ?] Vaccination-sbield Musical teething pad Squeeker Small-tooth comb Two starters and a eatcher ... Early risers Pil. coloc. comp. Pills for a speedy passage . . Sinners' leaves Senna leaves . . Balsam eopaibæ Moral barometer Cockle's pills Burnaby's openers ٠. Teat Infant's mouth-picee ...

[There is more humour in these latter names than in any we have yet received, and they quite meet Max Müller's definition of poetry. Crown Councillor's ointment, Hamilton's pills, Gregory's pills, evidently need historical elacidations. Is neats a we quivalent to cattle salve?]

Sin,—Under the above heading I find in your journal a collection of names, the majority of which may be classed "Universal." Many of them are familiar to me, both in London and Truro. I think, sir, you wou'd be acting kindly to the young members of the trade, by whom your journal is read, if you po'nt out the errors. I find one of your correspondents sells "arsenie" for "white mercury"! and another, more properly, bydrarg, animoniat: but to either I should give in preference calomel (a name which, like "Brande," 1883, I much prefer to hyd. subchlor.), being much less poisonous, the o'd name "Aquila alba" justifying the appellation of "white," No custom of the province can justify a substitute where the

name has been official, viz., sal ammoniac, P.L. 1836; hydrochlorate of ammonia, sal martis, P.L. 1746; sniphate of iron, ol. excestrense, P.L. 1677; oil of Exeter (Quincey tenth edition, 1736, gives twenty-eight ingredients). Diaerydium is simple seammony (diaerydium cydoniatum being seammony and quince juice). Balsamnm commendatoris is an old name for tr. benzoin eo., and may be commander or commadore. Oil of spike is French oil of laveuder, oil of vidgin is probably virgin oil (ol. alva "Brande," 1833), o'. petræ is petroleum, Lelievre's "Baume de vie" was a decoction of aloes with gentian, rhubarh, &c. I have been thirty-six years in the business and never before heard of tr. lavand, eo, being used as a substitute for dragons' blood, sanguis draconis, a resinous product of Calamus draco, and were I the analytical chemist of the district I certainly should advise a proscention, one being an astringent, the other a stimulant. Notwithstanding the protest of the worthy sceretary, many persons consider the Chemists and Druggists' Association "Provincial." If chemists paid the same percentage for auditing their accounts there are not many who would be in a position to say they "would not call King George their uncle"! Is this quotation "Provincial"? If there were no faultfinders there would be no fault-menders.

I am, yours trnly,

Truro, February 24.

[We are unfortunately compelled to differ from our friendly correspondent as regards white merenry. There is historical proof, which will be adduced in good time, that it was really white arsenie, and it would be a great mistake to substitute calomel for it. People would get accustomed to the milder article, and disaster would follow if they chanced to get the real thing. If white mercury were a newly-invented name the matter would be different. We quote a sentence from Nicholson's "Chemical Dictionary," p. 808:—"Alchemists have given the name of mercury to many other things besides the metallic substance generally so called. The latter they call ordinary mercury, and va'ue it little. We cannot precisely say what they meant by their mercury. No term is more frequently used by them." Cinnahar of antimouy, really mercuric sulphide, is another instance of this confusiou.]

To the Chemist and Druggist-

Sir,—An old Pharmaeopæia of mine (title page gone, but from various references in it to Quiney and others, I judge the date to be about 1740) gives Diacodlum—Syr, papav. alb. A special form is given for diascordium, which is an electuary, and coutains seventeen ingredionts. [The writer than mixes quotations from the lists of simples and preparations, which want of space compels us to omit.]

A countryman's method of digesting the earthworms in olemu no corum is to bury the jar in a dung-heap for a considerable periodinformant helped to make it twenty years ago for one of the fam whad met with a sprain. "After digesting some time in a dang-hit worms had settled to the bottom of the jar, and a beantifully clear appointed off."

Beasley gives two formulæ for baume de vie and balsam vitæ. See you two very old manuscript recipes of mine:—Tinct. Vitæ.—[Th still same form as that given in this issue by Mr. C. C. Bell.]

ELIXIR OF LIFE.—Gum guaiacum, 8 oz.; balsam Peru, ½ oz.; twine, 1 quart. "Digest in sand heat four days, then strain a 2 drachms distilled oil of sassafras. For any fresh cut or wound this excellent in either Man or Beast, and what Doctors make so extraven a charge for." I think the "Midland Chemist' is right in saying Tr. vite and Bals, vite should be a preparation of guaiacum; guaingnum alias lignum vite.

T. W. Pr. 5.

Newport, Salop, March 4.

ERRATA.—In the contribution of Mr. T. W. Picken, of Newport, on printed last month, there are some obvious misprints in the three-recipes. Tinet, aloes comp. P. L., refers to clixir proprietatis, not vure of steel also. Ferri oxidmu explains Golcothar only, not nitinginger. Oxylrocia, the last word in the column, should have oxylrocia.

One or two peculiarities I have come across in my time :-

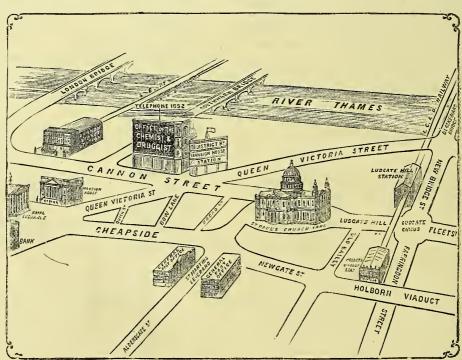
NAME				ARTICLE SOL	.D
Lnngs of oak	••			Iccland moss	
Oil of spike				Coloured turps	(c.
				anchus.)	
(Ol.	lavan, s	pic. is	s reall	y meant.)	
Elixir proprietatis	••			Dec. aloes co. not	tinetu
Sarsaparilla balls		٠.		Sal prunella	
Camomile powder	••			Hydrarg. subeh'o	r.
[These two a	re evi-le	ntly	mistal	kes of ignorance.]	
Dulcified nitre				Sp. eth. nit.	
White mercury				Arsenie, alb.	
Decodium [i.e. Diac	odium]			Syr. papav. alb.	
Hydride potash				Potass. iodid.	

Yours faithfully, W. R. Fowl

BIRD'S EYE VIEW OF THE CITY OF LONDON.

Portsea, Feb. 23.

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[Estab. 186

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he following is a list of a few that they name au hazard, and that have a large sale:-

	To de List O.	a tow miles they hame the name.	in' our mon move a range sais:	
9.66.69.65.65.65.65.65.65.65.65.65.65.65.65.65.	Per doz. locol de Menthe Ricqles .44/4 Ditto ditto .24/4 ubergier's Syrup .27/ .7 Påté .16/6 ay Rum .54/4 Ditto .27/4 elloo's Charcoal .14/4 "Lozenges .13/4 lancard's Pills .30/ Ditto .27/ ugeaud's Wine .35/6 ally's Vinegar .30/ Ditto .36/6	Retail Per doz.	Retail Per doz. 2/3Guyot's Goudron 18/ 11/. Laville's Gout Tincture 90/ 11/ , Pills 90 2/3Papier Fayard 13/6 1/1½ Ditto 7/ 4/Papier Fruneau 27/ 1/8 Pătê Aubergier 14/6 2/0 de Berthé 16/ 2/9, de Coca 23/ 1/9, de Georgé 18/ 1/1½ ., Ditto 8/6 1/9, de Nafé 13/ 1/9, Regnauld 13/ 1/9	Retail

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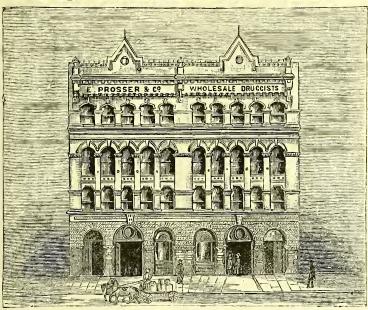
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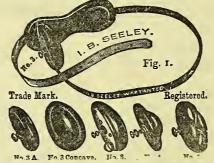
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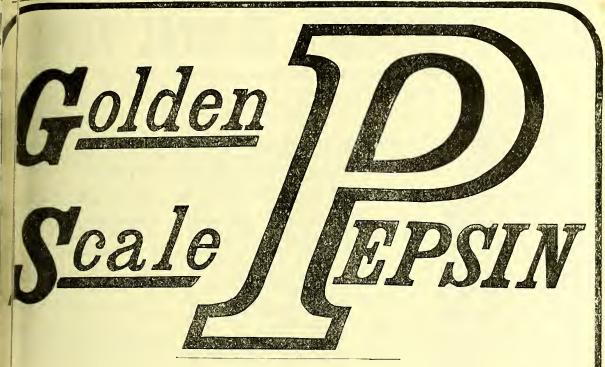
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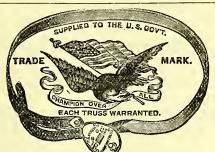
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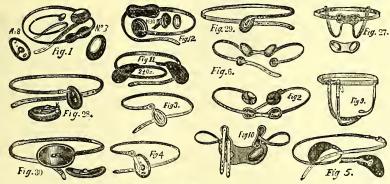
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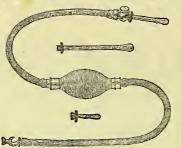
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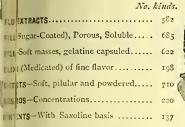
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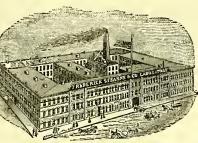
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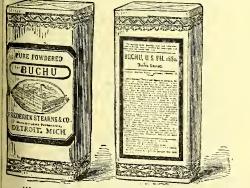
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P age	12	FOSSILINE.
"	23	DRUGGISTS' SUNDRIES LIST.
99	25	LESCHER'S MATERIA MEDICA.
99	68	SAVARS REQUISITES.
22	7 6	CONROY'S MALT COFFEE.
33	104	MONTSERRAT LIME-FRUIT JUICE
99	148	
23	161	TRADE ADVERTISEMENT.
11	163	EVANS' FLUID EXTRACTS.
3,	211	POROUS PLAISTERS ON FELT.

And to the Advertisements on Pages 30, 128, 141 of this issue.

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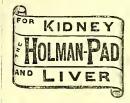












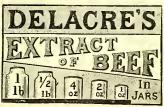












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IMPORTANT CAUTIONS

From Lord Chancellor SELBORNE, Vice-Chancellor Sir W. PAGE WOO and the LORDS JUSTICES OF APPEAL.

VICE-CHANCELLOR SIR W. PAGE WOOD, by whom the suit in Chancery was first heard, stated in his judgmental Dr. J. Collis Browne was undoubtedly the Inventor of Chlorodyne, that the whole story of the Defendant Freeman was deliberately untrue as the falsehood he had deposed to with reference to the use of his Chlorodyne in the Hospital.'

The VICE-CHANCELLOR also stated, that Chlorodyne was a fanciful name, and had application been made sooner in

Court would have given Dr. Browne protection.'
LORD CHANCELLOR SELBORNE coincided with the judgment of the Vice-Chancellor npon this point, and stated in had application been made at a proper time and place, the Court would have found means to restrain the Defendant from xp presenting the decision of the Vice-Chancellor.

LORD JUSTICE JAMES, on appeal, stated in his judgment, 'that the Defendant Freeman had made a deliberate misra

sentation of the decision of Vice-Chancellor Wood.

It was proved in Court, on affidavit by Mrs. Forbes, of Paris, that the testimonial published in the Times, November 1, 1865, speaking of the great efficacy of Chlorodyne in Cholera, referred to Dr. J. Collis Browne's Chlorodyne, and that she is used any other, that she had written to the Defendant Freeman to that effect; notwithstanding which notice the Defendant publishes the said testimonial as referring to his medicine.

The Editor of the Medical Times, in his report on Chlorodyne, January 13th, 1866, gives information that the Chlorodyne referred to was the medicine introduced by a retired Army Medical Officer, which was Dr. J. Collis Browne; still this is published.

by the Defendant as testimony to his medicine

Numerous affidavits from eminent Physicians and others were produced in Court, stating that Dr. J. Collis Browne was

inventor of Chlorodyne, and that when prescribing they mean no other.

The Defendant himself publishes that his compound is in effect and composition quite different to any other preparati

nevertheless he assumes the name, testimonials, &c., of Chlorodyne.

Technicalities in law prevent that protection which the public should justly have against such a course of conduct. It is a incumbent on all who purchase Chlorodyne to see that the name, 'Dr. J. Collis Browne's Chlorodyne,' is engraved on Government Stamp, as it is not sold otherwise. All other compounds under the name of Chlorodyne are spurious. All atten at analysis have failed; hence the statement that the constituents of Chlorodyne are known is a misrepresentation.

ORIGINAL AND

Price of this Bottle COLLIS BRU

FURTHER IMPORTANT NOTICE.

The subjoined list of eminent Firms concur with Vice-Chancellor Sir W. Page Wood's statement Court, that Dr. Collis Browne was undoubtedly the Inventor of Chlorodyne; and that when Chlorody or the Original Chlorodyne, is ordered, they invariably supply Dr. J. Collis Browne's:-

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Apothecaries' Hall,	London
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Dohbin, W., & Co.,	Belfast
Drew, Barron & Co.,	London
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Edwards, W.,	. "
Evans, Gadd & Co.,	Exeter
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Ferris & Co.,	Bristol
Foulger, S., & Son,	London

Thursday & Charles	C1
Frazer & Green,	Glasgow
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Johnson, J. H. & S.,	Liverpool
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Marsden & Sons.	London
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nd seent through Merchants should specially bear the name of Baiss Brothers & Co., and will be put on very best terms.

We have given special attention to the manufacture of this "Composition Essence," which is rapidly obtaining conespopularity in the North of England, being much preferred to COMPOSITION POWDER, not only as a family medicities a pure stimulant free from alcohol.

Price 1s. 6d. per lb. in Winchester Quarts. 5 per cent. discent

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PERFECT IN PURITY AND UNIFORM STRENGTH.

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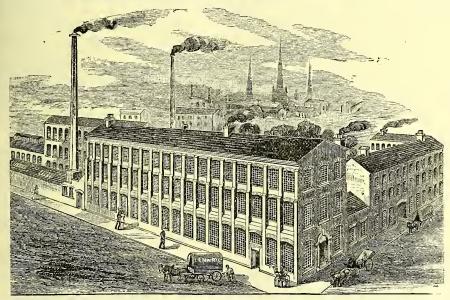
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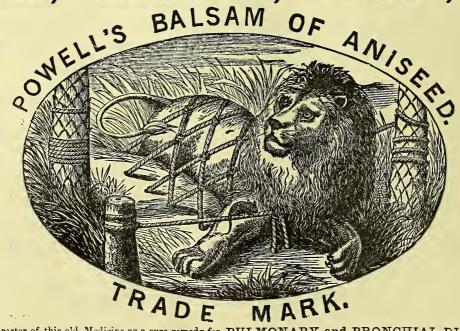
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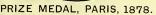
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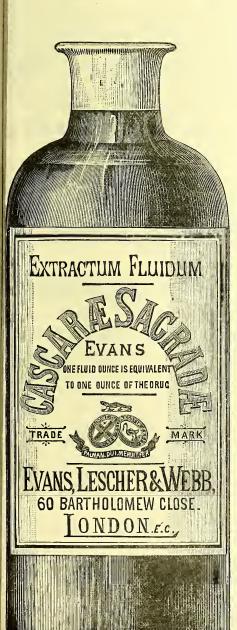
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This plant is a powerful tonic, laxative, preferably in small doses extending over some time. The bark is in largish pieces, rather flat and thin, breaking short; pale yellorish brown park, and dark fibrons sinner layer; little odour, and nau-cous taste; when the outer layer is corrugated and thickened, the bark is uot so valuable. The fluid extract represents measure for weight, one minim being about equal to one grain of the powdered bark.

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The leaves are oval lance-colate, slightly coriaceous, green, not brown, with pleasant odour resembling tea: they should possess the characteristic line run-ning up the leaf on either side of the midrib. Cocaine, in colourless crystals, is the active alkaloid.

Coca stimulates the whole nervous system, as a tonic restorative.

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CHRISTY'S SPÉCIALITÉ BOXES



A glass-topped show case, containing 8 of best patterns, post free for 4/6.

Specify Christy's Brand. Of any of the Wholesale Druggists,
Patent Medicine Agents, or write direct.

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T. C. & CO. SPÉCIALITÉS,

"OILICURE." Sizes 1/1½ 2/9 4/
For Rheumatism, Sciatica, &c., for Prices per dozen.
Neuralgia, Faccache, and Earache,

"BOWREY'S" DIGESTIVE "FRUIT" PILLS.

For all kinds of Indigestion — 20/ 28/

"ASTHMATICURE."

A wonderful remedy for Asthma, giving almost instant relief. Try it once

— 20/ 28/ Stamps extra.

Obtainable of all Patent Medicine Vendors or direct. Counter Bills on application.

THOMAS CHRISTY & CO., 155 FENCHURCH STREET, LONDON.

"FOR THE BLOOD IS THE LIFE."

CLARKE'S

WORLD FAMED

BLOOD MIXTURE,

The Great BLOOD PURIFIER and RESTORER

(Registered Trade Mark—"BLOOD MIXTURE.")

The Celebrated CURE FOR Scrofula, Scurvy, Blood and Skin Diseases, and Sores of all kinds.

Wholesale of all the Wholesale Houses, at 24s. and 108s. per dozen, less the usual discount.

Sole Proprietors, THE LINCOLN & MIDLAND COUNTIES' DRUG COMPANY, LINCOLN.

Counter Bills and Posters, with Name and Address, also Show Cards, on application. Printed matter supplied in any Language for Foreign Agents.

CAUTION.—The Proprietors will take immediate proceedings against all persons pirating their Trade Mark, "Blood Mixture," Labels, Wrappers, &c., or Advertisements, or in any way infringing their rights.

TIKHEEL

The New Remedy for Neuralgia, Tic, Toothache, Nervous and Sick Headache

ONE SIZE ONLY-HALF-A-CROWN.

Price 24/- per dozen, subject to usual Patent Medicine discount. Per gross, £11 8s., net cash, carriage paid, box free. Export Tin-lined Cases charged 7/6 each, delivered f.o.b. Remittance in full must accompany order. For less than One Gross buyers will please write their Patent Medicine House or Wholesale Druggist.

SPECIAL QUOTATIONS FOR 5-GROSS LOTS.

Very attractive Show Cards and Counter Bills (with name and address) will be forwarded to all dealers who stock Tikheel, on receipt of label or business card and directions for enclosure.

The following testimony from Agents shows that, notwithstanding the feeling as regards Patents generally, many of the most respected members of the trade will aid in introducing a genuine remedy when put before the public in a manner utterly devoid of Quackery:—

Messrs. Penney & Botwood, Pharmaceutical Chemists, Poole:—"We are selling the medicine well; it seems wonderful in its effects." Mr. A. B. Anderson, Dundee:—"Tikheel is selling freely, and giving unqualified satisfaction." Mr. J. G. Netting, Plymouth:—"I have sold many dozens of Tikheel with great satisfaction to customers, who praise it very highly, &c. I feel a pleasure in recommending it." Mr. H. T. Doble, Tavistock:—"Tikheel has been very successful in this neighbourhood." Mr. S. Nicholson, Fakenham:—"Tikheel gives the greatest satisfaction, acting like a charm. I anticipate increased sales."

Directions for use accompany each bottle in Spanish, French, and German.

PREPARED ONLY BY

CLARKE, BLEASDALE, BELL & CO.,

MENTHOL CONES.

WARRANTED PURE.

A 1 BRAND.



	Style. General description.	Price per doz.
ĺ	1. Glass bottles with screw caps	-
	2. In plain willow boxes, lid serving as holder	3/6
	3. Glass bottles with screw caps	
	4. ", (Menthol on wood mount, serving as holder.)	6/9
	5. Glass bottles with screw caps (Bullet-shaped cones, wrapped in tinfoil.)	6/9
	6. B xwood, ordinary shape on pedestal	*5/
	7. " Barrel shape	*6/
	8. ,, Acorn shape	*6/
	9. " Skittle shape	*6/
	10. Quite new, 6d., 12 on a card (very saleable)	3/6
	"Extra" sized cones, in paper boxes	9/
	6d., 12 in a tox. 1/-, 6 in a box.	
	* Boxwoods, to screw, 3d. per dozen extra	
	Loose Cones, all sizes Quotations solid	cited.

Of all wholesale houses, or, if direct, 5 per cent. discount for

ash with order.

A 1 MENTHOL DEPOT, 30 PATERNOSTER SQUARE, E.C.

COCAINE HYDROCHLORATE

(SOLUBLE)

Answering to the tests laid down by the Pharmacopola Committee of the German Pharmaceutical A sociation (see Pharmaceutical Journal, December 27 1884).

PURE ALKALOID, ACETATE, CITRATE, SALICYLATE and other salts of COCAÏNE.

PILOCAR "INE and its salts.

FLUID EXTRA: TOF: COCA and all other FLUID EXTRACTS (valoids) of the U.S. Pharmacopœia.

ALKALOIDS.

"Permanent" Solutions for Hypodermic Injection. Soluble Medicated Pessaries, Suppositories, and Bougies. Surgical and Medicinal Plasters,

TANNER & CO., Manufacturing Chemists,



HABCOAL CAPSULES, Containing pure Vegetable Ivory arocal in Boxes.

I

IMPORTANT NOTICE.

£200 Reward. PIRACY. £200 Reward.

The above reward will be paid by the Proprietors of "LIEBIG'S CHEMICAL FOOD," or Wine of Phosphates, to any person or persons who shall give such information as will lead to the discovery and conviction of any one making or offering for sale spurious or forged imitations of their proprietary article.

To obviate further PIRACY, the following alterations have been made:-

The words "LIEBIG'S CHEMICAL FOOD" are now engraved on the Government Stamps, the words in water mark on the Labels, as well as being moulded on the Bottles.

The Proprietors therefore request all Chemists and Patent Medicine Vendors to RETURN for exchange ANY STOCK they may have of "LIEBIG'S CHEMICAL FOOD," or Wine of Phosphates, to either their Wholesale House or direct to them,

12 York Buildings, Adelphi, London, W.C.

In all our Advertisements from this date, the attention of the Public will be called to these alterations, and they will be requested only to purchase such Bottles as have the Name Engraved on the Government Stamps, and the Name in Water Mark on the Labels.

IMPORTANT TRADE NOTICE

RESPECTING

TOWLE'S CHLORODYNE

The Original Preparation, as approved by the Medical Profession on account of its known composition and uniform strength.

Retail at 131d., 2s. 9d., 4s. 6d., and 11s.

We beg to inform our numerous customers, and the Trade generally, that we are WITHDRAWING THE 4-OZ. AND 10-OZ. DISPENSING sizes, and, instead, are putting up AN 11s. RETAIL SIZE. The wholesale price of the 4s. 6d. and 11s. will be at the same rate per oz. as the old 4-oz. and 10-oz. We shall still continue the undermentioned as usual

LIQ. CHLORODYNI

As originally introduced by A. P. Towle, and free from stamp duty for dispensing. 4 ozs., 4s.; ½ lb., 5s. 6d.; 1 lb., 10s.

Also in quantities of 6 lbs. and upwards at special quotations.

TOWLE'S CHLORODYNE LOZENGES AND JUJUBES

In 1, 2, and 4 lb. bottles, at 3s. per lb., and 6d. and 1s boxes. Foiled, lined, and neatly got up for the counter, 4s. 6d. and 9s. per doz. Quantities of 7 lbs. of Lozenges and upwards stamped with chemist's own name free of charge.

A. P. TOWLE. Chlorodyne Manufacturer, 75 BACK PICCADILLY, MANCHESTER.

Show Cards and Bills with name on application with instructions for forwarding.

Special Notice to Druggists at Home & Abroad.

The attention of the feeble, and those in failing health, is particularly called to one of the greatest discoveries of modern times, known as

PHOSPHATES. WINE

A very Valuable and Important Tonic Remedy, which has proved most successful throughout the World in all cases of Exhaustion.

OFFICERS CAMPAIGNING AND TRAVELLERS SHOULD NEVER BE WITHOUT

IEBIG'S CHEMICAL FOOD, or Wine of Phosphates,
Is a Nutritious and Invigorating Essence, highly recommended by
the most eminent of the Medical Profession for the care of Nervous the most eminent of the Medical Profession for the care of Nervous Tronbles and Mental Complaints, Cough, Asthma, and Incipient Consumption, Nervousness, Weakness and Exhaustion. Dimness of Sight, Shortness of Breath, Headache, Depression, Palpitation of the Heart, Drowsiness, Indigestion, Singing Noises in the Head and Ears, Trembling, Loss of Memory, Want of Appetite, Neuralgia, Pains and Aches, Wasting Diseases, Loss of Eoergy, Impaired Nutrition, Excessive Drinking, Inactivity of the Brain, with dulness of perception and delusions, and all other low states of the system indicating the presence of disease, which if not attended to in time must become serious. must become serious.

LIEBIG'S CHEMICAL FOOD

Is Pleasant to the taste, and is the true strength-giver and healthrestorer, nourishing both body and hrain, supplying mental and
physical power, and nerve and hrain food. It is not at all like medicine, heing entirely different to anything ever hefore introduced to
the public, and tastes like some balmy, fragrant, and delicious nectar,
and never fails. Purifies and enriches the Blood, thereby rendering
the skin clear and transparent; sharpens the intellect, strengthens
the constitution, re-establishes the health, thoroughly re-vitalizes
the system, and is the one unfailing remedy for dehility from whatever cause arising. Soldiers on the line of march in India have
found it a preventive of Fever.

IEBIG'S CHEMICAL FOOD, or Wine of Phosphates, In all diseases of the Heart, Chest, Liver, Lungs, Kidneys, Stomach, and Bowels, will be found highly beneficial, and there is scarcely a Disease but what will be henefited hy it, and in all human prohability cured.

LIEBIG'S CHEMICAL FOOD gives immediate relief. While all other preparations of Phosphorus are slow and uncertain in their action, taking days and sometimes weeks to produce an effect, this CHEMICAL FOOD (Wine of Phosohates) acts at once and gives strength in one hour, and has been known to restore health in less than a week, even after the failure of the usual remedies.

This remarkable preparation not only contains all the materials necessary for the foundation of a new constitution, and for preventing or curing disease, hat everything required for forming rich, pure, and healthy blood, muscle, flesh, hone, brain, &c., and contains the very elements of LIFE.

IEBIG'S CHEMICAL FOOD is a wine without spirit. This Wine is perfectly free from Alcohol, and restores to the system whatever it requires, the absence of which often causes the debility. The secretions are all brought to their natural healthy condition, and physical decay arrested. This Wine is as certain in its action as that water quenches thirst, and its benefits are lasting. It acts like a charm; it might truly be called the WINE OF LIFE.

CAUTION TO CHEMISTS

Fraudulent Imitations of LIEBIG'S CHEMICAL FOOD are being sold to Chemists and others. We are determined to protect our property by immediately prosecuting vendors of such imitations. Chemists and Medicine Vendors can protect themselves by seeing that the name "LIEBIG'S CHEMICAL FOOD" is engraved on the Government Stamp, and that the same words are in Water Mark on all Labels.

Chemists will greatly oblige us by giving immediate notice of any offer of a preparation under this name, as we employ no travellers, and do not authorise anyone to solicit

orders on our behalf. See offer of £200 on next page.

WHOLESALE TRADE TERMS.—2/9 size, 19/6 per doz.; 4/6 size, 31/ per doz.; 11/ size, 78/ per doz. All net cash with order delivered in London.

LIEBIG & CO., 12 York Buildings, Adelphi, LONDON.



MOTICE.



NEPENTHE.

FERRIS & Co., v. GOODMAN.

NOTICE IS HEREBY GIVEN that by an Order of the Chancery Division of the High Court of Justice, made the 18th day of July, 1884, in the above action, IT WAS ORDERED that the Defendant and others be perpetually restrained from selling, or offering for sale, any formula or recipe for "Nepenthe," and from otherwise prejudicing the sale thereof by, or injuring the title thereto, or Trade Mark therein, of the Plaintiffs, Messrs. Ferris & Co., of Bristol, the registered proprietors thereof.

And it was further ordered that the Defendant do pay the costs of the said Action. Dated this 12th day of August, 1884.

(Signed) CHILTON & GREEN-ARMYTAGE, BRISTOL,

Solicitors for the said Plaintiffs.

MEPENTHE.

(Prepared exclusively from Opium.)

The safest and best preparation of Opium; produces neither headache, sickness, nor constipation.

Dose, the same as that of Tinct. Opii, P.B.

Price 8s. per pound.

The word NEPENTHE being registered under the Trade Marks Act. Messrs. FERRIS & CO. have the SOLE RIGHT to use it; and the Trade are respectfully cautioned against any infringement of their rights.

Trade and Wholesale Terms for NEPENTHE upon application.

FERRIS, BOORNE, TOWNSEND & BOUCHER,

MANUFACTURING CHEMISTS, BRISTOL,

AMPUTATION AVOIDED.

THE KNIFE SUPERSEDED.

TRADE MARK.

REGISTERED OVER ALL THE GLOBE.



TRADE MARK.

REGISTERED OVER ALL THE GLOBE.

the worst and most obstinate cases of Ulcers, Abscesses, Cancers, Tumours, Polypi, Carbuncles, Piles, Poisoned Wounds of l kinds (including Dog and Venomous Bites), and every form of Eroption and Skin Disease; also Ulcerated and Cancerous ffections peculiar to Females, without the ai of Lancet or Knife. Numbers have been cured after leaving various London lospitals as incurable, or curable only by amputation.

A list of over sixty, each bearing full name and address, is he following are specimens of Testimonials received. wrapped round each box.

ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883. ERSKINE HOUSE, NEAR TIDAL BASIN, VICTORIA DOCKS: Dec. 31, 1883. DEAR SIR.— heg to inform you I have not a spot ahout me, and I believe you are instrument in the Almighty's hands to do a world of good for your fellow-eatures. Anyone to have seen me this time twelve months, and see me now, would yit was the greatest miracle e er my de in skin diseas. I have had spots on me rabout forty years, have taken medicine of every description, baths, &c., &c., till November, 1882, and nothing ever could touch it. I was then recommended to the Lion Ointment and Pills as a certain cure, and I found them the masterpiece the world. I have consulted great men, and they could not touch it. People nest not be a fraid of using the Lion Ointment; the more it pinches them the more is drawing the disease out—only persevere, and the Lion Ointment and Pills will be their work. Now, God bless you in your undertaking.—From yours falthfully, ME. BURGESS.

LMA ROAD, next door to EAST HILL HOTEL, WANDSWORTH, late 2 BOLTON ROAD, GROVE PARK, CHISWICK, MIDDLESEX: February 7, 1883.

DEAR SIR.—I am happy to forward to you the following testimonial of the great due of your Lion Ointment and Pills. Through the ill-treatment of my husband have been suffering with poisoned blood, and, in consequence, a large abscess rmed in my neck. also say litils affecting my leg. I have, too, been suffering many are from a diseased hip. I consulted several physicians, who said that I should be recover unless I had the bone taken out. Last May, 1882, I was advised to use but Lion Ointment and Pills; hy so doing I can scarcely describe the benefit I celved in a very short time, and I am happy to tell you that they saved my life, id I am now perfectly cured. Honing through my case your wonderful Ointment and Pills may get well known for the benefit of my poor fellow-creatures. You are liberty to refer anyone to me at any time should you wish.

I am, Sir, yours respectfully, ELIZABETH STILLWELL.

To Mr. E. Burgess.

PROSPECT HOUSE, AMERSHAM COMMON: June 25, 1881.

STR.—Please send me by return one box of your Pills. The box of Lion Ointment sent for is for Eyspipelas in the face; do you think it suitable? [Most effectual.] les send me another box of the Lion Ointment, I have enclosed stamps for the same, have had Ointment from you before through a friend of mine. I had been suffering om a small tumour in the head for some years, and had the advice of medical men, id all said I must have it taken out; but, on applying your Ointment, in a fortestif they wit out and made a complete cure of it.—Yours respectfully, TO Mr. E. BURGES.

ELM LODGE, WIMBLEDON PARK, late 25 BALLANTINE STREET, YORK ROAD WANDSWORTH: January 17, 1881.

DEAR SIR,—Having attended St. Thomas's Hospital for nine months, suffering greatly with a tumour, extending from the back of the ear to the collar bone, affecting the shoulder, and receiving not the least henefit. I was earnestly persuaded to give your Lion Ointment a trial. By so doing I can scarcely describe the benefit I received in a very short time. I am truly thankful to stvet a am quite well and am able to resume my duties without trouble or inconvenien e. I was also attended by several doctors during the five years I have been suff ring from the tumour, not having received the slightest benefit. Dear Sir, you are at I berty to publish this, or send anyone to my residence for satisfaction.—I am, Sir, yours most respectfully. To MR. BURGESS.

[The above was a most serious case. Photographs of the same, uncred and cured.]

[The above was a most serious case. Photographs of the same, uncured and cured, and the Fungus and Diseased Bone drawn away by the Ointment, can b seen on application at 117 High Holborn, W.C.

7 SHAFFESBURY PLACE, ALDERSGATE STREET, E.C.: May 20, 1882. SIR...It gives me great pleasure to add to your numerous testimonials. For four years I suffered with a very had leg, and attended St. Bartholomew's, the University and Dalston Hospitals, and various Dispensaries, where they told me it was a cancerous ulcer, incurable, that I must lose my leg. However, being recommended to use your Lion Ointment I did so, and in three months the cancer was drawn away, and my leg made quite well....I remain, yours &c.,

To MR. E. Burgerss.

LUCY IBBS.

DEAR SIR.—I feel it my duty to thank you're the wonderful way in which your line of the wonderful way in which you line of the wonderful way in which you line of the wonderful way in which you line years. When I was residing at St. John's Hill, Wandsworth, I purchased a box of your Ointment, and hy the end of the fourth week, it had perfectly cured my hand, and I have seen nothing of it since. Freviously to applying your Ointment, I had been to my own doctor at Wandsworth with it, and als : to several Skin Disease Hospitals in London, but to no avail. They said it could not be cured, and must therefore, be endwed; but, as I said here, you me with me, and am glad I did, for I have found it very useful. I gave some to a gentleman who had his legs covered with Natal sores, and could not walk for them, and it has perfectly cured them. I have been obliged to send home to my friends to send me out some, which I expect shortly to arrive, for, as I said before, it is very useful; in fact, cures everything in which I have tried it. If only you had an agent here, I would recommend it to everybedy.—I am, dear Sir, yours, &c.,

SUSAN S. SMITH

Various Cancers, Tumours, Diseased Bones, &c., extracted by the LION OINTMENT AND ILLS; also Photographs of Cases Cured are on view at 117 High Holborn. A guarantee of heir virtue.

A good sale for this remedy always follows its introduction by proof of its efficacy. Foreign Houses will do well to order amples through their English agents, also supplies of Bills, Photographs of Cases Cured, &c., which always ensure a connection.

The Ointment is put up in air-tight, grease-proof boxes, and will keep good any length of time in any climate. The Pills re in stout wooden boxes, and also retain their virtue for years. Prices, 1s. 1½d., 2s. 9d., 4s. 6d., 11s., and 22s. each.

USUAL WHOLESALE TERMS.

BURGESS,

17 HIGH HOLBORN, and KINGSGATE ST., LONDON, W.C.

Late WANDSWORTH, S.W.

SUPPLEMENT

STOWER'S LIME JUICE SYRUP & CORDIAL

Prepared from their Original Lime Juice Syrup Recipe.

ALSO LEMON JUICE PREPARATIONS AND PURE LIME JUICE.

The advantages offered over other Makers' Cordials are-

First-That it contains more Lime Juice.

Secondly-That it is entirely free from chemical or other acids, except the natural acid in the pure juice of the fruit.

Thirdly—That it is quite free from the musty taste and smell which predominate in most, if not all, of the Cordials.

It is guaranteed to keep, open or closed, for any length of time in any climate or temperature, and to be entirely free from Alcohol.

A. RIDDLE & CO., 38 COMMERCIAL ST., LONDON, E.

HOLLOWAY'S PILLS & OINTMENT

Have the Largest Sale of any Medicine in the World.

MANUFACTURED ONLY AT

Professor HOLLOWAY'S Establishment

78 New Oxford St. (late 533 Oxford St.), London.

And sold at 1s. 11d., 2s. 9d., 4s. 6d., 11s., 22s., and 38s. each Box or Pol.

Ohemists and Druggists selling "Holloway's Pills and Ointment" can, on application to the above address, or to the Wholesale House, with whom they deal, be supplied free of charge with Handbills and Posters with their name and address printed at foot.

Wholesale Terms see List of "Proprietary Articles" in most Price Currents.

INDEX TO ADVERTISEMENTS,
Pages 37 and 38.

MORISON'S PILLS, POWDERS AND OINTMENT.

The most Safe, Efficacious, and Prompt VEGETABLE MEDICINE for Family Use.

COMPOUNDED OF THE PUREST VEGETABLE INGREDIENTS ONLY.

FIFTY-FIVE YEARS OF UNINTERRUPTED SUCCESS.

Pills in Boxes at $7\frac{1}{2}d$., 1s. $1\frac{1}{2}d$., 2s. 9d., 4s. 6d., and 11s. Powders, 1s. $1\frac{1}{2}d$. Ointment, 1s. $1\frac{1}{2}d$. and 2s. 9d.

Wholesale: BRITISH COLLEGE OF HEALTH, 33 Euston Road, London

And of the Principal Chemists and Druggists throughout the Kingdom.



Sold by all Chemists and Patent Medicine Dealers, in Boxes, at 131d, and 2s, 9d, cach; or post free from the Proprietor, ROBERT HENRY LOWE, Bilston Road, Wolverhampton, upon receipt of the price in Postage Stamps.

COLONIAL AGENTS WANTED.

W. F. SMITH'S TASTELESS

DANDELION ANTIBILIOUS PILLS

Price, 1s. 13d. and 2s. 9d. per Box.

Registered.] TARAX. AND PODOPH. [Registered.

A NON-MERCURIAL LIVER MEDICINE, specially useful to the habitually constipated, and safe for all ages.

Worthy of trade notice. Reliable, and rapidly increasing in public acceptance.

Urgent caution needed against injurious imitations.

PREPARED ONLY BY

W. F. SMITH, M.P.S.,

280 WALWORTH ROAD, LONDON.

To be had of the usual Houses at Home and Abroad.

SCHIEFFELIN'S

any uncoated pills that can be made.

Are made of the best materials; perfectly protected; entirely and quickly soluble; coated while soft; not subjected to the injurious effects of heat in the process of manufacture. The mass is worked to the highest possible degree of uniform intermixture, and subdivided with scrupulous exactness. The coating is an inert, thick is so transparent colourless and thin that the distinctive colour of each pill

tasteless, and odourless compound, which is so transparent, colourless, and thin, that the distinctive colour of each pill is revealed through the coat. No sub-coating is used. The solubility of the coating is not impaired by age. All the officinal pills, as well as any others ordered by the Medical Profession, can be furnished in this form. They can be implicitly relied upon in every respect. The coating, while

thoroughly protecting the pill, will not be found to in any way interfere with the action of the drug, and those who have found sugar or chalk-coated pills objectionable, owing to the liability of the coating becoming insoluble by age, will find our coating to dissolve as readily after many years as when first prepared. It, moreover, does not form a hard tough shell as is the case with the ordinary g-latine coating. We claim and believe our Coated Pills to be nearer perfection than any similar goods that have been offered, and guarantee the pills to be as quickly effective as

PILLS.

ALLEN & HANBURYS, Plough Court, Lombard Street, LONDON.

WONDERFUL MEDICINE!



Between thirty and forty years ago a Medicine was introduced to the pub and suffering humanity was invited to try the same.

The Proprietor knew from experience that success was certain, but the human breast is so imbued with prejudice, that it forms one of the strongest barriers to break down and the greatest enemy to overcome before any headway can be made towards the mansion of success. Truth has often proved itself to be "stranger than fiction," and it is a fact as solid as truth that

BEECHAM'S PILLS

have now become one of the leading Patent Medicines of the present day. From north to south, and from east to west, they are to be found in the homes of the rich and the poor. All classes of society use them, and they are by thousands declared to be

WORTH A GUINEA A BOX.

For a Weak Stomach, Impaired Digestion, and all Disorders of the Liver, tey act like "MAGIC," and a few doses will be found to work wonders on the nost important organs in the human machine. They strengthen the whole nuscular system, restore the long-lost complexion, bring back the keen edge appetite, and arouse into action, with the ROSE-BUD of health, the whole nysical energy of the human frame. These are "FACTS" admitted by tousands, embracing all classes of Society, and one of the best guarantees to the Nervous and Debilitated is, BEECHAM'S PILLS have the LARGEST ALE of any Patent Medicine in England.

In South Africa BEECHAM'S PILLS have the largest sale of any Patent Medicine ever introduced into that part of the World.

All Patent Medicine Dealers abroad will find BEECHAM'S PILLS one of the most profitable done of the best selling articles in the Market. The demand for them is regular, and all Foreign buses who are desirous of getting a First-class Patent Medicine are respectfully requested to BEECHAM'S PILLS from the leading Wholesale Houses in England (as no business will be one with any Foreign House by the Proprietor direct).

CAUTION.—The Public are requested to notice that the words 'BEECHAM'S PILLS, ST. HELENS," are on the Government tamp affixed to each Box of the Pills; if not on, they are a Forgery.

Prepared only, and Sold Wholesale and Retail, by the Proprietor,

THOMAS BEECHAM, T. HELENS, LANCASHIRE, ENGLAND.

In Boxes, 1s. 1½d. and 2s. 9d. each.

N.B.—FULL DIRECTIONS ARE GIVEN WITH EACH BOX

BRITISH, COLONIAL, AND FOREIGN CHEMI

RECOMMENDED FACULTY. BY THE

ammala Price-12/per Gross.

Retail, $1\frac{1}{2}$ d. each (18/- per Gross).

Registered Trade Mark, No. 22,133.

The mildest and most agreeable aperient known. A first-class Family Medicine for every household. Highly approved of by adults; children take it readily and do not suspect its properties. A most suitable aperient for women at all times, and during the whole course of pregnancy. Does not gripe, and leaves no bad effect as Castor Oil does. A digestive tablet and sweet to the taste.

Dr. McCANN, Orchard-Hey. Liverpool, sent the following letter:—December 22, 1889.—"The aperient action of the 'Manna Cake' is decidedly good. Mildly energetic, free from griping, and to be depended on when a mild but certain aperient is needed. It is also an effectual WORM CAKE. Being pleasant to the taste (it is mainly sugar), its easy administration very strongly recommends its use, especially in fever cases, where all excitement should be avoided."

FOREIGN COLONIAL AND HOUSES.

Terms, 12s. per gross, less discount for cash against shipping documents. A liberal supply of printed matter is included in this, the consignee issuing such as he thinks best. On orders of 20 gross and upwards at a time printed matter is supplied in any language. On orders over 100 gross arrangements will be made for advertising in any country should advertisements not be running.

EXTRACTS LETTERS. FROM

"Please forward me another 4 gross. Its pleasant taste and easy operation constitute it a favourite medicine in my own, as in other families A. T. BORTHWICK, Chemist, Selkirk.

"A Physician in the West of England says he gave Calomel and Jalap in repeated doses without effect, but a Manna Cake acted almost im-

in repeased mediately.

"The article is selling freely."

W. H. HAYWARD, Chemist, Trowbridge, Wilts.

W. H. HAYWARD, Chemist, Trowbridge, Wilts. "Send another 4 gross. My counter sale last week was over 10 dozen."
JOHN LEA, Chemist, Folkestone.

"Manna Cake is having an increased sale here, and gives great satisfaction. Many shudder at the idea of taking castor oil, even if it be deprived of taste. Children like them, and I have found in some instances one quite sufficient for an adult."

A. STOOKE, Chemist, &c., Sittingbourne.

"It answers the purpose admirably, and gives great satisfaction. It (or you) may justly be called 'The Children's Friend." H. T. DOBLE, Chemist, Tavistock.

"It is one of our best preparations."
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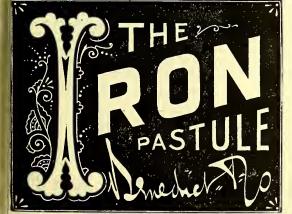
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54 HOLBORN VIADUCT, E.C. London, 29th Nov., 1877.

REPORT ON THE TEETHING POWDER PREPARED BY Mr. JAS. STEDMAN, HOXTON.

I hereby certify that I have purchased a sample of STEDMAN's Teething Powder, and have, at the request of the Proprietor, subjected it to Analysis for Morphia or Opium in any form.

I am enabled to state that I found the sample in question to be absolutely free from Morphia, or any other

Alkaloid or constituent of Opium.

Thus Stedman's Teething Powder is favourably distinguished from similar preparations.

ARTHUR H. HASSALL, M.D.

Thus Vendors need not be under any apprehension of interference either by Police or Coroner, as the FREEDOM FROM NARCOTIC removes Stedman's Teething Powders from the "Scheduled Poisons" List, and prevents the possibility of inquests on account of the administration of these Powders.

STEDMAN'S TEETHING POWDERS

are best distinguished by their proper brand, a Gum Lancet (as above), which specify in ordering.

Price 78/- per gross net.

Eight 11s. Boxes, each containing 216 Powders, for £4 net.

SEIDLITZ POWDERS.

Full Size, and Prepared throughout with Howard's

Loose, 5s. 6d. per gross; in 1 doz. Coloured Boxes, Wrappers, &c., 6s. per doz. net.

TERMS—Cash with Order.

DRUGS PACKED FOR THE COLONIES.

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125 NEW NORTH ROAD, HOXTON, LONDON, N.

OLD-FASHIONED E HAND-MADE LINT.

No. 5, AS SUPPLIED TO THE GOVERNMENT HOSPITALS, 4s. per lb.

SPECIAL QUOTATIONS TO LARGE BUYERS.

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SURGEONS'

LINT.

The superior quality of NEWSOME'S ABSORBENT SURGEONS' LINT is universally admitted.

The V.B. Quality is quite pure and of great superficial area and exquisite softness.

The C. Quality is equally absorbent and pure, but stronger in fabric.

Newsome's Bleached Rolled Bandages, 3 in., 2½ in., 2 in. Also Surgical Absorbent Open Bandages.

Specially Bleached Grey Carded Cotton Wools, Absorbent and Bleached and Grey Waddings; also

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(PATENT ABSORBENT GAUZE AND COTTON WOOL.)

ABSORBENT COTTON WOOL.

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COTTON SPINNERS AND MANUFACTURERS OF

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For Home Trade and Export to all climates.

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SPREAD & MARGINAL PLASTERS,

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Best preventive and cure of Bronchitis, Asthma,
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This LINT, unequalled by any other, has been before the Public for about Thirty Years, during which time it has been most extensively used in the British Army and Navy, in a large number of British and Foreign Hospitals, and by the Medical Profession generally.

Its advantages are that, being made from fine Flax Fibre, it is perfectly free from all impurities, and,

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Manufactured by W. G. TAYLOR, Charford Mill, BROMSGROVE.

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Packages having the Patentee's Signature alone are genuine.

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W. G. TAYLOR begs to inform the Trade that he is the Sole Manufacturer of the above celebrated Lint, and that he has no connection whatever with any other maker. Supplied Wholesale, direct from the Works; or by—

S. MAW, SON & THOMPSON, 7 to 12 Aldersgate Street, LONDON, E.C.

Taylor's Super A1 Flax Lint,

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FNT L

PATENT FLAX

AND GREY BANDAGES,

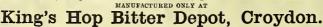
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Are old-established, registered, and protected under the Trade Marks Act, as having been prepared before August, 1875. They are an excellent aromatic tonic, palatable, and command a good sale. Put up in bottles to retail at $1/1\frac{1}{4}$ and 2/3 per bottle, also in packets containing ingredients for making the same at $7\frac{1}{2}d$, and $1/1\frac{1}{2}$ per packet. Show Tablets and Counter Bills with testimonials supplied. Each Bottle and Packet bear, as Trade Marks, "King Alfred's Head" and "British Flags." Beware of Infringements.



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NEW METHOD REVOLVING APPARATUS (Michaelis' Patent).

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See the Chemists' and Druggists' Diary, 1884, page 274, OR APPLY TO

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The DORIC CURES are Safe, Sure, Speedy Specifics.

DORIC EYE LOTION, guaranteed to quickly cure red, sore, luflamed eyelids and watery eyes.

CHAP, and CORN CURE softens and whitens roughest hands and skin. It is harmless, sweetsmelling, and beneficial.

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Put up in 4-lh. Decorated Tins with Glass Lids, TINS FREE, are now being inquired for by huyers from all parts of the world. They are not surpassed in quality by any maker, and give entire satisfaction.

HIGH-CLASS LOZENGES, of MEDICATED every kind.

Sent out in 2-lb. or 4lh. Bottles, Bottles Free; or in Tins, from 10 lh. upwards. LIME

TABLETS. JUICE PURE MALT TABLETS. ACID DROPS, AND BEST QUALITY BOILED SUGARS OF EVERY KIND.

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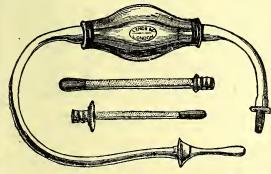
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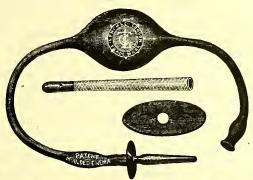
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SUBJOINED ARE PRESENT PRICES:		d.
433A. HIGGINSON'S, unvarnished india-rubber, with rectum pipe only, in slide cedar boxes per doz.	-	0
	10	0
434. Ordinary Higginson's, barrel shape, with bone rectum pipe, elastic gum vagina pipe, to plug on, and patent leather		
shield, in slide cedar box	12	0
,	16	0
The state of the s	14	0
435c. LYNCH'S (Higginson's principle), black, green, red or white india-rubber, requiring no metal mounts, in one		
1,	10	
The state of the s	15	١
436. LYNCH'S FAMILY (Higginson's principle), fitted with bone bulb pointed rectum pipe for adults, elastic-gum vagina pipe, and elastic-gum rectum pipe with bone shield for children, in mahogany box per doz.	8	Δ.
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437E. LYNCH'S COMPLETE HOUSEHOLD SYRINGE, consisting of Higginson's Enema with disconnecting mounts, fitted with bone bulb-pointed rectum pipe for adults, elastic-gum rectum pipe with bone shield for children,		
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Discount—10 per cent Monthly 5 per cent Half-yearly Account.		

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Feeding Bottles.

THE " ECLIPSE."

Fitted with Boxwood or China topped Corks.



White Fittings, 30s. per gross; best Black Fittings, 36s. per gross.

Fitted with best Screw Glass Stoppers, 6s. per gross extra, The above are put up in one dozen wood-partitioned boxes.

Spare Bottles or Fittings at lowest prices. Liberal discount to large buyers.

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GLASS BOTTLES of EVERY DESCRIPTION, either PLAIN or STOPPERED, made in WHITE, BLUE, AMBER, ACTINIC GREEN, or any other colour required.

SCREW NICKEL CAPPED POMADES, HONEY POTS, JELLY JARS, &c., &c.

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"OUR LITTLE PETS" Feeding Bottle.

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Each Bottle, with two Brushes, in handsome cardboard box, bearing our Copyright Label.

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Funnels, Evaporating Pans, Electric Battery Fittings, Bed Pans, Urinals, Medicine Spoons, Physic Cups, Sick Feeders, Bleeding Basins, Medicine Measures, Eye Cups, Inhalers, Nursery Lamps, Wall Tiles, &c.

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BENTLE & SONS'



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CROCI

EW OPAL GLASS POT

FOR DISPENSING TOOTH PASTE, COLD CREAM, & OTHER PURPOSES.

PRICES:- ${\overset{3}{1}}$ oz. ${\overset{1}{1}}$ oz. ${\overset{1}{1}}$ oz. ${\overset{2}{1}}$ oz. ${\overset{2}{2}}$ oz. ${\overset{2}{1}}$

E. BENTLEY & SONS, DRUGGISTS'

Manufacturers of Ship and Family Medicine Chests of every description. All kinds of Bottles for Chemists' and Perfamers' use kept in stock or made to order.

TABERNACLE ST., & 1 & 2 HILL ST., FINSBURY, LONDON, E.C.

WITH (burnt in) LABELS

(Black letters on a ground of pink or white enamel).

Narrow-mouthed and Wide-mouthed Bottles, well stoppered; Capped and Tube-stoppered Oil Bottles; Syrup Bottles, with Plug Stoppers of Dark Blue or White Opaque Glass; Lozenge Jars with Cut Glass Knobs; Cut Perfume Bottles, Round, Oval, and Square; Shop Jars of Best Porcelain, thoroughly Greaseproof. Labels Indestructible and of Elegant Appearance, forming an even surface with the Glass or Porcelain. PRICE LIST ON APPLICATION. A Large Variety of Samples on Show at

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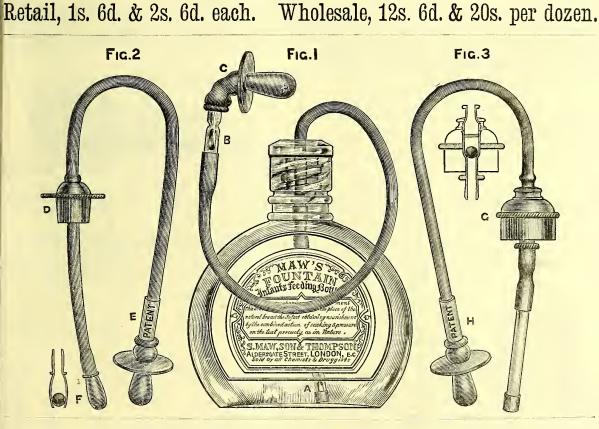
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MAW'S PATENT FOUNTAIN FEDING BOTTLES

FOR INFANTS.



Unless ordered to the contrary, MAW'S FOUNTAIN FEEDING BOTTLES are now always supplied as Fig. 1, with Glass Screw Stoppers, and fitted with Glass-Valve Tube (A), Registered Glass-Valve Union (B), and Registered Curved Indiarubber Teat (C).

These Bottles are PERFECT IN ACTION, and are STRONGLY RECOMMENDED.

MAW'S FOUNTAIN FEEDING BOTTLES can be had with the old fittings as formerly, if so ordered, at the same prices as Fig. 1.

Fig. 2 represents the (1/6) old fittings—Metal Plug-Stopper (D), Patent Coupling-Piece (E), and Metal Ball-Valve (F).

Fig. 3 represents the (2/6) old fittings—Metal Cap with Ball-Valve inside (G), and Patent Coupling Piece (H).

S. MAW, SON & THOMPSON, LONDON.

THE PROPRIETORS OF THE

BRAND

Beg to call the attention of their numerous supporters to their correct



as they learn with regret that inferior bottles have been shipped with a Mark imitating theirs. The Proprietors continue to supply their bottles only through the best London Wholesale Houses, as heretofore, and give notice that they will take action against makers using a colourable imitation of their Trade Mark.



GLASS POTS & BUT FRENCH SCREW

WITH METALLIC NICKELLED CAPSULES.

The above new method (first introduced by G. V. De Luca) excels all others for neatness and elegance, and is specially adapted for export. Made in various new designs. Specialité for Bottles for all kinds of Confectionery, Essences Manufacturers and Sundries. N.B.—Beware of imitations sold at cheap prices, the capsules beling a mixture of lead or tinned iron.

Manufacturer of the GLASS POMADE POTS WITH GLASS COVERS, in Opal White and White Flint in all sizes.

G. V. DE LUCA, French Flint Glass Manufacturer, 6 and 7 Long Lane, LONDON, E.C. WHOLESALE AND EXPORT AGENTS-S. MAW, SON & THOMPSON, 7 TO 12 ALDERSGATE STREET, LONDON, E.C. Illustrated Catalogue for Patent Screw Capsule on application.

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MADE OF PURE METAL

I. ISAACS & CO., Glass Bottle Manufacturers.

Beg to state that they have greatly improved the quality of their Bottles, and supply them at the following greatly reduced prices—Green FLINT, Flat or Oval, Flain or Graduated.

3 and 4 ounce . 8/ per gross. | 12 ounce . 13/ per gross. 6 and 8 ounce . 16/ ",

White Moulded Phials of Superior Quality.

of Superior 1½ ounce 2 ounce 7/6 per gross. 4/ per gross. ounce and under 5/ per gross. 1 ounce 3 ounce

Plain, or Graduated to Tesspoons. All the above are first-rate quality. In ordering, please say "PURE METAL BOTTLES." A Sample Bottle of any kind forwarded free on application. Country packages, 1/ each. Bankers, London and Westminster. Established upwards of 50 years.

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DRUGGISTS' WAX, BOTTLING WAX LETTER PACKING

"BEE" BRAND SOLD BY ALL Wholesale Druggists Sundrymen.

GEORGE WATERSTON & SONS, LONDON AND EDINBURGH

PRICE OF GLASS BOTTLES, SYPHONS, ETC GREAT REDUCTION IN TWENTY-FIVE YEARS. ESTABLISHED ROUND SHOULDER OR LIME JUICE BOTTLES. BEST WHITE FLINT OVAL DISPENSING OR PERFUMERY BOTTLES.

½ 1 2 3 4 6 8 10 12 16 20 oz. 2/9 3/3 4/6 6/ 6/6 7/6 8/6 14/ 15/ 20/ 22/ per gross

VIALS (Long, Medium, or Short Scries). oz., 2/8: 1 oz., 3/; 2 oz., 4/6 gross. Good quality. KALI (CONFECTIONER'S) BOTTLES.

6 8 10 12 20 oz. 7/6 9/ 14/ 17/ 24/ gross. GLASS SYRINGES (Best Quality).

1 oz., 14/; ½ oz., 18/; 1 oz., 27/; 2 oz., 49/ gross. All and every kind of Bottle made, and prices given for any particular pattern.

SEEDING BOTTLES: [SPECIAL PRICES ON APPLICATION.]

BEST WHITE FLATS. 3 4 6 8 oz. 7/ 8/6 9/6 10/6 per gross. PILL BOTTLES (Metal Screw Caps). ½ oz., 9/; 1 oz., 10/; 2 oz., 13/; 3 oz., 16/ gross. POMADE BOTTLES (Metal Screw Caps).

3 4 6 8 oz. 7/ 8/6 9/6 10/6 per gross.

1 oz., 10/6; 2 oz., 14/; 3 oz., 18/; 4 oz., 21/ gross. Our Metallic Capsules are superior to anything in the Market.

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Best White Glass, China Tops, White Indiarubber Fittings, 27/ gross; Black ditto, 34/ gross.

Curved, with Screw Caps, White Indiarubber Fittings, 36/ gross; Black Indiarubber Fittings, 42/ gross. N.B.—The fittings for above Screw Feeders are made in Glass (no Metal or Earthenware). SYPHONS: Block Tin Mounts, best in the trade, 19/ doz. f.o b. Antwerp. SELTZOGENES : 5 pint, 14/ ea:

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Also at 37 QUAI FLAMAND, ANTWERP, and FALKENAU, BOHEMIA.

Show Rooms at 82 HATTON GARDEN, LONDON, E.C.; and 28 Rue Notre Dame de Nazareth, Paris.

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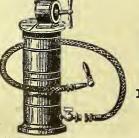
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For Enemas, Injections, Irrigators Ascendant, Douches, enabling sick persons to use in bed, without changing their places, or putting themselves to any other inconvenience.

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MANUFACTURERS OF

GLASS BOTTLES.

VAN BOXES, CASES, &c.,

Respectfully invite attention to the following Goods that they supply:

DISPENSING BOTTLES-All kinds in GREEN and WHITE FLINT GLASS

FEEDING BOTTLES-"OUR BABIES' BOTTLE," in GREEN and WHITE GLASS.
"OUR DARLINGS' BOTTLE," in WHITE GLASS.

PERFUMERY BOTTLES-Many kinds in WHITE FLINT GLASS.

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Will find that we can serve them well, both in quality and price, and we solicit Orders for the coming season.

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Home Buyers are invited to send for our "MONTHLY_CIRCULAR", and Foreign Buyers for our "QUARTERLY EXPORT PRICE CURRENT (Illustrated)," both of which contain full particulars of all our goods.

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REGISTERED

ARE CLAIMED TO BE THE MOST PERFECT AND CONVENIENT YET OFFERED TO THE TRADE, AND POSSESS THE FOLLOWING ADVANTAGES:-

1st.—An India-rubber Band passed vertically over the pot is kept; in its place by the notches, and effectually secures the lid; for travelling this supplies a want greatly needed.

2nd.—The Covers being made quite ease, and without creasing.

flat, labels can be affixed with

PRICES. $\left\{\begin{array}{ccc} \frac{1}{8} & \frac{1}{4} & \frac{1}{2} \\ 18/ & 18/ & 18/ \end{array}\right.$

3rd.—The inside of the Pots being rounded or egg-shape, the contents can be entirely removed without waste.

4th.—Great attention has been paid to insure accuracy of contents.

8 oz 54/-66/- per Gross.

DR. SPENCER THOMSON'S

ORO-NASAL STEA

For use in the Relief of Asthma, Hay Fever, &c.

The advantages of this Inhaler are:-

1.-Simplicity and Cleanliness.

2.-The application of the vapour, simple or medicated, to the membranes not only of the mouth and throat but also of the nostrils and air passages generally.

3.—Perfect ease of inhalation, contrasting with the efforts required in the use of Oral Inhalers in general.

PRICES.

In Terra Cotta 48s. dozen In White Earthenware .. 33s.

PRESS OPINIONS.

"For the relief of Asthma, Hay Fever, &c., this Inhaler

offers particular advantages."

British Medical Journal, October 25, 1884.

"It is an improvement on the old kinds".

Chemist and Druggist, November 15, 1884.

"This Inhaler has much to commend it to popular use."—Knowledge, November 28, 1884.

THE

WESTMINSTER



THE 1s. WHITE GLASS-WHITE FITTINGS BLACK FITTINGS

7/3 DOZEN. 8/6

THE 6d. GREEN GLASS-WHITE FITTINGS BLACK FITTINGS

.. 4/9

MANUFACTURED BY

WILLIAM TOOGOOD.

WHOLESALE GLASS BOTTLE MANUFACTURER & DRUGGISTS' SUNDRYMAN, 35, 36, & 37 MOUNT STREET, GROSVENOR SQUARE, LONDON, W.

WILLIAM TOOGOOD'S REVISED PRICE CURRENT of Glass Bottles, Measures, Earthenware, Druggists' Sundries, &c., will be forwarded post free upon application.

SPECIAL ATTENTION GIVEN TO SHIPPING ORDERS.



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(LIMITED)

AIRE & CALDER BOTTLE CO.

GLASS BOTTLES.

GLASSWARE SUNDRIES.

PATENT

AERATED WATER BOTTLES.

VAN BOXES, CASES, & CRATES.

PATENT MEDICINE PROPRIETORS

Will find we have special facilities for producing great variety of Bottles in many attractive and useful shapes.



PERFUMERY FACTORS



We supply some 9.000 various patterns in clear Crystal Glass, plain or stoppered. Lettered Bottles, with Name, Address, Trade Mark, &c.

PATENT CAPPED POMADES

Fitted with Glazed Earthenware Corrugated Edge Caps, forming clean, effectual, and everlasting stopper, in 1, 1½, 2, 3, 4, 6, 8, 10, and 12 oz. sizes, in 1 doz. Card or Wood Boxes.

Customer's Name, Address, Trade Mark, &c., printed on 5-gross lots.

GLASSWARE SPECIALITIES:

CHLOROFORM, ETHER, OIL & SYRUP BOTTLES, CHEMICAL APPARATUS, JARS, &c.

SAMPLES, PRICES, ETC., UPON APPLICATION.

OFFICES AND SHOW-ROOMS-

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ADDRESSED TO CHEMISTS AND DRUGGISTS. **AGENTS** WANTED.

HENRY A. MARTIN'S

For the Radical Cure of Varicose Veins, Weakness, Ulcers, Eczema, and other Diseases of the Leg, and for Injuries of the Knee and Ankle Joints.

y far superior to any of the numerous imitations; are now being sold at less cost than those of other manufacturers

TESTIMONIAL:

From EDWARD C. ANDERSON, M.D., M.A., CANTAB.,
TO MESSRS. KROHNE & SESEMANN.

GENTLEMEN,—I have the greatest pleasure in acceding to your request, that I should, from my experience of the Martin's Bandages,
Mr. Knowledge for excellence.

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In April of this year, I for the first time used the original Martin's Bandage, and since then I have applied them and none else to the limbs of nearly twenty persons suffering from a variety of complaints, such as ulcers of the leg of old standing, which had resisted all treatment for more than fifteen years; varicosities (the unsound leg of one patient, a man, measured 25 inches round the calf, against 16½ inches, the size of the sound leg; and his condition was such that, before coming nader my care, it had been by his former attendant serionsly debated whether or not the leg should be amputated to save life. This man goes about wearing a 21-foot Bandage, and the calf of the unsound leg now measures 18 inches); crysipelas, ordema, rachitis, &c.

Snffice it that all, both young and old, have been enabled to wear them with comfort; most of the cases under treatment have been cured, all benefited, and many, although well, continue to wear them on account of their safety and the support they give rise to.

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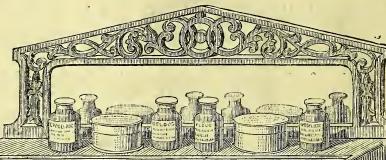
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